



Sequence Listing.txt
SEQUENCE LISTING

<110> Japan Science and Technology Corporation

<120> Antibodies presented protein hollow nano-particles for therapeutic drug and protein hollow nano-particles

<130> P023P03

<140> PCT/JP2003/003694

<141> 2003-03-26

<150> JP 2002-097424

<151> 2002-03-29

<150> JP 2003-045088

<151> 2003-02-21

<160> 244

<170> PatentIn Ver. 2.1

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<212> DNA

<213> Artificial Sequence

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<213> Artificial Sequence

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<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 3

ggggacctcg gatccgcgag cttaccagtt ctcaca 36

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Sequence Listing.txt

<212> DNA
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Sequence Listing.txt

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ggttgagata aaagagcttt tggcgcggcc gccttt
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<210> 13
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Sequence Listing.txt

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<223> Description of Artificial Sequence:Artificially
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Sequence Listing.txt

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synthesized sequence

Sequence Listing.txt

synthesized sequence

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<210> 26
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<210> 27
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Ser Ala Trp Arg His Pro Gln Phe Gly Gly
1 5 10

<210> 28
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Sequence Listing.txt

<220>

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Trp Ser His Pro Gln Phe Glu Lys
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<210> 29

<211> 116

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially synthesized sequence

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Val Asp Asn Lys Phe Asn Lys Glu Gln Gln Asn Ala Phe Tyr Glu Ile
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Leu His Leu Pro Asn Leu Asn Glu Glu Gln Arg Asn Ala Phe Ile Gln
20 25 30

Ser Leu Lys Asp Asp Pro Ser Gln Ser Ala Asn Leu Leu Ala Glu Ala
35 40 45

Lys Lys Leu Asn Asp Ala Gln Ala Pro Lys Val Asp Asn Lys Phe Asn
50 55 60

Lys Glu Gln Gln Asn Ala Phe Tyr Glu Ile Leu His Leu Pro Asn Leu
65 70 75 80

Asn Glu Glu Gln Arg Asn Ala Phe Ile Gln Ser Leu Lys Asp Asp Pro
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Ser Gln Ser Ala Asn Leu Leu Ala Glu Ala Lys Lys Leu Asn Asp Ala
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Gln Ala Pro Lys
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<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially synthesized sequence

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gcgttctatg	agatcttaca	tttacctaac	ttaaacgaag	aacaacgaaa	cgccttcac	180
caaagttaa	aagatgaccc	aagccaaagc	gctaaccctt	tagcagaagc	taaaaagcta	240
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tatgagatct	tacatttacc	taacttaaac	gaagaacaac	gaaacgcctt	catccaaagt	360
ttaaaagatg	acccaagcca	aagcgctaac	cttttagcag	aagctaaaaa	gctaaatgat	420
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Sequence Listing.txt

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<210> 31

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<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially synthesized sequence

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Met Gly Thr Asn Leu Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp
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20 25 30

Lys Phe Asn Lys Glu Gln Gln Asn Ala Phe Tyr Glu Ile Leu His Leu
35 40 45

Pro Asn Leu Asn Glu Glu Gln Arg Asn Ala Phe Ile Gln Ser Leu Lys
50 55 60

Asp Asp Pro Ser Gln Ser Ala Asn Leu Leu Ala Glu Ala Lys Lys Leu
65 70 75 80

Asn Asp Ala Gln Ala Pro Lys Val Asp Asn Lys Phe Asn Lys Glu Gln
85 90 95

Gln Asn Ala Phe Tyr Glu Ile Leu His Leu Pro Asn Leu Asn Glu Glu
100 105 110

Gln Arg Asn Ala Phe Ile Gln Ser Leu Lys Asp Asp Pro Ser Gln Ser
115 120 125

Ala Asn Leu Leu Ala Glu Ala Lys Lys Leu Asn Asp Ala Gln Ala Pro
130 135 140

Lys Ala Ala Ala Pro Ala Pro Asn Met Glu Asn Thr Thr Ser Gly Phe
145 150 155 160

Leu Gly Pro Leu Leu Val Leu Gln Ala Gly Phe Phe Leu Leu Thr Arg
165 170 175

Ile Leu Thr Ile Pro Gln Ser Leu Asp Ser Trp Trp Thr Ser Leu Asn
180 185 190

Phe Leu Gly Gly Ala Pro Thr Cys Pro Gly Gln Asn Ser Gln Ser Pro
195 200 205

Thr Ser Asn His Ser Pro Thr Ser Cys Pro Pro Ile Cys Pro Gly Tyr
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210

215

220

Arg Trp Met Cys Leu Arg Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu
 225 230 235 240
 Leu Cys Leu Ile Phe Leu Leu Val Leu Leu Asp Tyr Gln Gly Met Leu
 245 250 255
 Pro Val Cys Pro Leu Leu Pro Gly Thr Ser Thr Thr Ser Thr Gly Pro
 260 265 270
 Cys Lys Thr Cys Thr Ile Pro Ala Gln Gly Thr Ser Met Phe Pro Ser
 275 280 285
 Cys Cys Cys Thr Lys Pro Ser Asp Gly Asn Cys Thr Cys Ile Pro Ile
 290 295 300
 Pro Ser Ser Trp Ala Phe Ala Arg Phe Leu Trp Glu Trp Ala Ser Val
 305 310 315 320
 Arg Phe Ser Trp Leu Ser Leu Leu Val Pro Phe Val Gln Trp Phe Val
 325 330 335
 Gly Leu Ser Pro Thr Val Trp Leu Ser Val Ile Trp Met Met Trp Tyr
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 Trp Gly Pro Ser Leu Tyr Asn Ile Leu Ser Pro Phe Leu Pro Leu Leu
 355 360 365
 Pro Ile Phe Phe Cys Leu Trp Val Tyr Ile
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<210> 32

<211> 1134

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially synthesized sequence

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Sequence Listing.txt

<210> 33

<211> 378

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially synthesized sequence

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Met Gly Thr Asn Leu Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp
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His Gln Leu Asp Gly Gly Arg Ala Gln His Asp Glu Ala Val Asp Asn
20 25 30

Lys Phe Asn Lys Glu Gln Gln Asn Ala Phe Tyr Glu Ile Leu His Leu
35 40 45

Pro Asn Leu Asn Glu Glu Gln Arg Asn Ala Phe Ile Gln Ser Leu Lys
50 55 60

Asp Asp Pro Ser Gln Ser Ala Asn Leu Leu Ala Glu Ala Lys Lys Leu
65 70 75 80

Asn Asp Ala Gln Ala Pro Lys Val Asp Asn Lys Phe Asn Lys Glu Gln
85 90 95

Gln Asn Ala Phe Tyr Glu Ile Leu His Leu Pro Asn Leu Asn Glu Glu
100 105 110

Gln Arg Asn Ala Phe Ile Gln Ser Leu Lys Asp Asp Pro Ser Gln Ser
115 120 125

Ala Asn Leu Leu Ala Glu Ala Lys Lys Leu Asn Asp Ala Gln Ala Pro
130 135 140

Lys Ala Ala Ala Pro Ala Pro Asn Met Glu Asn Thr Thr Ser Gly Phe
145 150 155 160

Leu Gly Pro Leu Leu Val Leu Gln Ala Gly Phe Phe Leu Leu Thr Arg
165 170 175

Ile Leu Thr Ile Pro Gln Ser Leu Asp Ser Trp Trp Thr Ser Leu Asn
180 185 190

Phe Leu Gly Gly Ala Pro Thr Cys Pro Gly Gln Asn Ser Gln Ser Pro
195 200 205

Thr Ser Asn His Ser Pro Thr Ser Cys Pro Pro Ile Cys Pro Gly Tyr
210 215 220

Arg Trp Met Cys Leu Arg Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu
225 230 235 240

Leu Cys Leu Ile Phe Leu Leu Val Leu Leu Asp Tyr Gln Gly Met Leu
245 250 255

Pro Val Cys Pro Leu Leu Pro Gly Thr Ser Thr Thr Ser Thr Gly Pro
260 265 270

Cys Lys Thr Cys Thr Ile Pro Ala Arg Gly Thr Ser Met Phe Pro Ser

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275

280

285

Cys Cys Cys Thr Lys Pro Ser Asp Gly Asn Cys Thr Cys Ile Pro Ile
 290 295 300
 Pro Ser Ser Trp Ala Phe Ala Arg Phe Leu Trp Glu Trp Ala Ser Val
 305 310 315 320
 Arg Phe Ser Trp Leu Ser Leu Leu Val Pro Phe Val Gln Trp Phe Val
 325 330 335
 Gly Leu Ser Pro Thr Val Trp Leu Ser Val Ile Trp Met Met Trp Tyr
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 Trp Gly Pro Ser Leu Tyr Asn Ile Leu Ser Pro Phe Leu Pro Leu Leu
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 Pro Ile Phe Phe Cys Leu Trp Val Tyr Ile
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<210> 34

<211> 1134

<212> DNA

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<210> 35

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<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 35

Met Gly Thr Asn Leu Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp

Sequence Listing.txt

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His Gln Leu Asp	Gly Gly Arg Ala	Gln His Asp Glu	Ala Val Asp Asn
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	35	40	45
Pro Asn Leu Asn	Glu Glu Gln Arg	Asn Ala Phe Ile	Gln Ser Leu Lys
	50	55	60
Asp Asp Pro Ser	Gln Ser Ala Asn	Leu Leu Ala Glu	Ala Lys Lys Leu
	65	70	75
Asn Asp Ala Gln	Ala Pro Lys Val	Asp Asn Lys Phe	Asn Lys Glu Gln
	85	90	95
Gln Asn Ala Phe	Tyr Glu Ile Leu	His Leu Pro Asn	Leu Asn Glu Glu
	100	105	110
Gln Arg Asn Ala	Phe Ile Gln Ser	Leu Lys Asp Asp	Pro Ser Gln Ser
	115	120	125
Ala Asn Leu Leu	Ala Glu Ala Lys	Lys Leu Asn Asp	Ala Gln Ala Pro
	130	135	140
Lys Ala Ala Ala	Pro Ala Pro Asn	Met Glu Asn Thr	Thr Ser Gly Phe
	145	150	155
Leu Gly Pro Leu	Leu Val Leu Gln	Ala Gly Phe Phe	Leu Leu Thr Arg
	165	170	175
Ile Leu Thr Ile	Pro Gln Ser Leu	Asp Ser Trp Trp	Thr Ser Leu Asn
	180	185	190
Phe Leu Gly Gly	Ala Pro Thr Cys	Pro Gly Gln Asn	Ser Gln Ser Pro
	195	200	205
Thr Ser Asn His	Ser Pro Thr Ser	Cys Pro Pro Ile	Cys Pro Gly Tyr
	210	215	220
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	225	230	235
Leu Cys Leu Ile	Phe Leu Leu Val	Leu Leu Asp Tyr	Gln Gly Met Leu
	245	250	255
Pro Val Cys Pro	Leu Leu Pro Gly	Thr Ser Thr Thr	Ser Thr Gly Pro
	260	265	270
Cys Lys Thr Cys	Thr Ile Pro Ala	Gln Gly Thr Ser	Met Phe Pro Ser
	275	280	285
Cys Cys Cys Thr	Lys Pro Ser Asp	Arg Asn Cys Thr	Cys Ile Pro Ile
	290	295	300
Pro Ser Ser Trp	Ala Phe Ala Arg	Phe Leu Trp Glu	Trp Ala Ser Val
	305	310	315
Arg Phe Ser Trp	Leu Ser Leu Leu	Val Pro Phe Val	Gln Trp Phe Val
	325	330	335
Gly Leu Ser Pro	Thr Val Trp Leu	Ser Val Ile Trp	Met Met Trp Tyr

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355 360 365

Pro Ile Phe Phe Cys Leu Trp Val Tyr Ile
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<210> 36
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<223> Description of Artificial Sequence:Artificially
synthesized sequence

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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Artificially
synthesized sequence

<400> 37
Met Gly Thr Asn Leu Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp
1 5 10 15

His Gln Leu Asp Gly Gly Arg Ala Gln His Asp Glu Ala Val Asp Asn
20 25 30

Lys Phe Asn Lys Glu Gln Gln Asn Ala Phe Tyr Glu Ile Leu His Leu
35 40 45

Pro Asn Leu Asn Glu Glu Gln Arg Asn Ala Phe Ile Gln Ser Leu Lys
50 55 60

Asp Asp Pro Ser Gln Ser Ala Asn Leu Leu Ala Glu Ala Lys Lys Leu
Page 13

Sequence Listing.txt

```

65          70          75          80
Asn Asp Ala Gln Ala Pro Lys Val Asp Asn Lys Phe Asn Lys Glu Gln
      85          90          95
Gln Asn Ala Phe Tyr Glu Ile Leu His Leu Pro Asn Leu Asn Glu Glu
      100         105         110
Gln Arg Asn Ala Phe Ile Gln Ser Leu Lys Asp Asp Pro Ser Gln Ser
      115         120         125
Ala Asn Leu Leu Ala Glu Ala Lys Lys Leu Asn Asp Ala Gln Ala Pro
      130         135         140
Lys Ala Ala Ala Pro Ala Pro Asn Met Glu Asn Thr Thr Ser Gly Phe
      145         150         155         160
Leu Gly Pro Leu Leu Val Leu Gln Ala Gly Phe Phe Leu Leu Thr Arg
      165         170         175
Ile Leu Thr Ile Pro Gln Ser Leu Asp Ser Trp Trp Thr Ser Leu Asn
      180         185         190
Phe Leu Gly Gly Ala Pro Thr Cys Pro Gly Gln Asn Ser Gln Ser Pro
      195         200         205
Thr Ser Asn His Ser Pro Thr Ser Cys Pro Pro Ile Cys Pro Gly Tyr
      210         215         220
Arg Trp Met Cys Leu Arg Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu
      225         230         235         240
Leu Cys Leu Ile Phe Leu Leu Val Leu Leu Asp Tyr Gln Gly Met Leu
      245         250         255
Pro Val Cys Pro Leu Leu Pro Gly Thr Ser Thr Thr Ser Thr Gly Pro
      260         265         270
Cys Lys Thr Cys Thr Ile Pro Ala Arg Gly Thr Ser Met Phe Pro Ser
      275         280         285
Cys Cys Cys Thr Lys Pro Ser Asp Arg Asn Cys Thr Cys Ile Pro Ile
      290         295         300
Pro Ser Ser Trp Ala Phe Ala Arg Phe Leu Trp Glu Trp Ala Ser Val
      305         310         315         320
Arg Phe Ser Trp Leu Ser Leu Leu Val Pro Phe Val Gln Trp Phe Val
      325         330         335
Gly Leu Ser Pro Thr Val Trp Leu Ser Val Ile Trp Met Met Trp Tyr
      340         345         350
Trp Gly Pro Ser Leu Tyr Asn Ile Leu Ser Pro Phe Leu Pro Leu Leu
      355         360         365
Pro Ile Phe Phe Cys Leu Trp Val Tyr Ile
      370         375

```

<210> 38
 <211> 933
 <212> DNA

Sequence Listing.txt

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 38

```

atgggggacga atcttttctgt tcccaatcct ctgggattct ttcccgatca ccagttggac 60
ggcgggcccga tgaactctga ttccgaatgc ccgctgtctc atgacggtta ctgcctgcat 120
gatggcgtat gcatgtacat cgaagctctg gacaaatacg catgcaactg tgtttaggt 180
tacatcggcg aacgttgcca gtatcgcgac ctgaaatggg gggaactgcg taaggcggcc 240
gccccctgcac cgaacatgga gaacacaaca tcaggattcc taggaccctt gctcgtgta 300
caggcgggggt ttttcttggt gacaagaatc ctcacaatac cacagagtct agactcgtgg 360
tggacttctc tcaattttct agggggagca cccacgtgtc ctggccaaaa ttcgcagtcc 420
ccaacctcca atcactcacc aacctcttgt cctccaattt gtcctggcta tcgctggatg 480
tgtctgcggc gttttatcat attcctcttc atcctgctgc tatgcctcat cttcttggtg 540
gttcttctgg actaccaagg tatgttgccc gtttgcctc tacttccagg aacatcaacc 600
accagcacgg ggccatgcaa gacctgcacg attcctgctc aaggaacctc tatgtttccc 660
tcttggtgct gtacaaaacc ttcggacgga aactgcactt gtattcccat cccatcatcc 720
tgggctttcg caagattcct atgggagtg gacctcagtc gtttctcctg gctcagttta 780
ctagtgccat ttgttcagtg gttcgtaggg ctttcccca ctgtttggct ttcagttata 840
tggatgatgt ggtattgggg gccaaagtct tacaacatct tgagtcctt tttacctcta 900
ttaccaattt tcttttct tgggtatac att 933

```

<210> 39

<211> 311

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 39

```

Met Gly Thr Asn Leu Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp
 1           5           10           15
His Gln Leu Asp Gly Gly Arg Met Asn Ser Asp Ser Glu Cys Pro Leu
          20           25           30
Ser His Asp Gly Tyr Cys Leu His Asp Gly Val Cys Met Tyr Ile Glu
      35           40           45
Ala Leu Asp Lys Tyr Ala Cys Asn Cys Val Val Gly Tyr Ile Gly Glu
 50           55           60
Arg Cys Gln Tyr Arg Asp Leu Lys Trp Trp Glu Leu Arg Lys Ala Ala
 65           70           75           80
Ala Pro Ala Pro Asn Met Glu Asn Thr Thr Ser Gly Phe Leu Gly Pro
          85           90           95
Leu Leu Val Leu Gln Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr
      100          105          110
Ile Pro Gln Ser Leu Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly
      115          120          125
Gly Ala Pro Thr Cys Pro Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn
      130          135          140
His Ser Pro Thr Ser Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp Met

```

Sequence Listing.txt

145 150 155 160
 Cys Leu Arg Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu
 165 170 175
 Ile Phe Leu Leu Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys
 180 185 190
 Pro Leu Leu Pro Gly Thr Ser Thr Thr Ser Thr Gly Pro Cys Lys Thr
 195 200 205
 Cys Thr Ile Pro Ala Gln Gly Thr Ser Met Phe Pro Ser Cys Cys Cys
 210 215 220
 Thr Lys Pro Ser Asp Gly Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser
 225 230 235 240
 Trp Ala Phe Ala Arg Phe Leu Trp Glu Trp Ala Ser Val Arg Phe Ser
 245 250 255
 Trp Leu Ser Leu Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser
 260 265 270
 Pro Thr Val Trp Leu Ser Val Ile Trp Met Met Trp Tyr Trp Gly Pro
 275 280 285
 Ser Leu Tyr Asn Ile Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe
 290 295 300
 Phe Cys Leu Trp Val Tyr Ile
 305 310

<210> 40

<211> 933

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 40

```

atggggacga atctttctgt tccaatcct ctgggattct ttcccgatca ccagttggac 60
ggcggccgca tgaactctga ttccgaatgc ccgctgtctc atgacggtta ctgcctgcat 120
gatggcgtat gcatgtacat cgaagctctg gacaaatagc catgcaactg tgttgtaggt 180
tacatcggcg aacgttgcca gtatcgcgac ctgaaatggg gggaactgcg taaggcggcc 240
gccccctgcac cgaacatgga gaacacaaca tcaggattcc taggaccctt gctcgtgtta 300
caggcgggggt ttttcttggt gacaagaatc ctacaatac cacagagtct agactcgtgg 360
tggacttctc tcaattttct agggggagca cccacgtgtc ctggccaaaa ttcgcagtcc 420
ccaacctcca atcactcacc aacctcttgt cctccaattt gtcctggcta tcgctggatg 480
tgtctgcggc gttttatcat attcctcttc atcctgctgc tatgcctcat cttcttggtg 540
gttcttctgg actaccaagg tatgttgccc gtttgccttc tacttccagg aacatcaacc 600
accagcacgg ggccatgcaa gacctgcacg attcctgctc gaggaacctc tatgtttccc 660
tcttggtgct gtacaaaacc ttcggacgga aactgcactt gtattcccat cccatcatcc 720
tgggctttcg caagattcct atgggagtgg gcctcagtcg gtttctcctg gctcagttta 780
ctagtgccat ttgttcagtg gttcgtaggg ctttcccccct ctgtttggct ttcagttata 840
tggatgatgt ggtattgggg gccaaagtct tacaacatct tgagtcctct tttacctcta 900
ttaccaattt tcttttgtct ttgggtatac att                                     933

```

<210> 41

<211> 311

Sequence Listing.txt

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 41

```

Met Gly Thr Asn Leu Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp
 1          5          10          15
His Gln Leu Asp Gly Gly Arg Met Asn Ser Asp Ser Glu Cys Pro Leu
          20          25          30
Ser His Asp Gly Tyr Cys Leu His Asp Gly Val Cys Met Tyr Ile Glu
          35          40          45
Ala Leu Asp Lys Tyr Ala Cys Asn Cys Val Val Gly Tyr Ile Gly Glu
          50          55          60
Arg Cys Gln Tyr Arg Asp Leu Lys Trp Trp Glu Leu Arg Lys Ala Ala
          65          70          75          80
Ala Pro Ala Pro Asn Met Glu Asn Thr Thr Ser Gly Phe Leu Gly Pro
          85          90          95
Leu Leu Val Leu Gln Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr
          100          105          110
Ile Pro Gln Ser Leu Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly
          115          120          125
Gly Ala Pro Thr Cys Pro Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn
          130          135          140
His Ser Pro Thr Ser Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp Met
          145          150          155          160
Cys Leu Arg Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu
          165          170          175
Ile Phe Leu Leu Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys
          180          185          190
Pro Leu Leu Pro Gly Thr Ser Thr Thr Ser Thr Gly Pro Cys Lys Thr
          195          200          205
Cys Thr Ile Pro Ala Arg Gly Thr Ser Met Phe Pro Ser Cys Cys Cys
          210          215          220
Thr Lys Pro Ser Asp Gly Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser
          225          230          235          240
Trp Ala Phe Ala Arg Phe Leu Trp Glu Trp Ala Ser Val Arg Phe Ser
          245          250          255
Trp Leu Ser Leu Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser
          260          265          270
Pro Thr Val Trp Leu Ser Val Ile Trp Met Met Trp Tyr Trp Gly Pro
          275          280          285
Ser Leu Tyr Asn Ile Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe

```

Sequence Listing.txt

290

295

300

Phe Cys Leu Trp Val Tyr Ile
305 310

<210> 42

<211> 933

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 42

```

atgggggacga atcttttctgt tcccaatcct ctgggattct ttcccgatca ccagttggac 60
ggcgggccgca tgaactctga ttccgaatgc ccgctgtctc atgacggtta ctgcctgcat 120
gatggcgtat gcatgtacat cgaagctctg gacaaatacg catgcaactg tgttgtaggt 180
tacatcgggcg aacgttgcca gtatcgcgac ctgaaatggg gggaactgcg taaggcggcc 240
gccccctgcac cgaacatgga gaacacaaca tcaggattcc taggaccctt gctcgtgtta 300
caggcgggggt ttttcttggt gacaagaatc ctcacaatac cacagagtct agactcgtgg 360
tggacttctc tcaattttct agggggagca cccacgtgtc ctggccaaaa ttcgcagtcc 420
ccaacctcca atcactcacc aacctcttgt cctccaattt gtcctggcta tcgctggatg 480
tgtctgcggc gttttatcat attcctcttc atcctgtctc tatgcctcat cttcttggtg 540
gttcttctgg actaccaagg tatgttgccc gtttgctctc tacttccagg aacatcaacc 600
accagcacgg ggccatgcaa gacctgcacg attcctgtct aaggaacctc tatgtttccc 660
tcttgttgct gtacaaaacc ttcggacaga aactgcactt gtattcccat cccatcatcc 720
tgggctttcg caagattcct atgggagtgg gcctcagtcg gtttctcctg gctcagttta 780
ctagtgccat ttgttcagtg gttcgtaggg ctttcccca ctgtttggct ttcagttata 840
tggatgatgt ggtattgggg gccaaagtctg tacaacatct tgagtcctct tttacctcta 900
ttaccaattt tcttttgtct ttgggtatac att 933

```

<210> 43

<211> 311

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 43

```

Met Gly Thr Asn Leu Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp
 1           5           10           15
His Gln Leu Asp Gly Gly Arg Met Asn Ser Asp Ser Glu Cys Pro Leu
          20           25           30
Ser His Asp Gly Tyr Cys Leu His Asp Gly Val Cys Met Tyr Ile Glu
          35           40           45
Ala Leu Asp Lys Tyr Ala Cys Asn Cys Val Val Gly Tyr Ile Gly Glu
          50           55           60
Arg Cys Gln Tyr Arg Asp Leu Lys Trp Trp Glu Leu Arg Lys Ala Ala
          65           70           75           80
Ala Pro Ala Pro Asn Met Glu Asn Thr Thr Ser Gly Phe Leu Gly Pro
          85           90           95
Leu Leu Val Leu Gln Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr

```

Sequence Listing.txt

100

105

110

```

Ile Pro Gln Ser Leu Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly
      115                      120                      125
Gly Ala Pro Thr Cys Pro Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn
      130                      135                      140
His Ser Pro Thr Ser Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp Met
      145                      150                      155                      160
Cys Leu Arg Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu
      165                      170                      175
Ile Phe Leu Leu Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys
      180                      185                      190
Pro Leu Leu Pro Gly Thr Ser Thr Thr Ser Thr Gly Pro Cys Lys Thr
      195                      200                      205
Cys Thr Ile Pro Ala Gln Gly Thr Ser Met Phe Pro Ser Cys Cys Cys
      210                      215                      220
Thr Lys Pro Ser Asp Arg Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser
      225                      230                      235                      240
Trp Ala Phe Ala Arg Phe Leu Trp Glu Trp Ala Ser Val Arg Phe Ser
      245                      250                      255
Trp Leu Ser Leu Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser
      260                      265                      270
Pro Thr Val Trp Leu Ser Val Ile Trp Met Met Trp Tyr Trp Gly Pro
      275                      280                      285
Ser Leu Tyr Asn Ile Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe
      290                      295                      300
Phe Cys Leu Trp Val Tyr Ile
      305                      310

```

<210> 44

<211> 933

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 44

```

atggggacga atctttctgt tcccaatcct ctgggattct ttcccgatca ccagttggac 60
ggcggccgca tgaactctga ttccgaatgc ccgctgtctc atgacgggta ctgcctgcat 120
gatggcgat gcatgtacat cgaagctctg gacaaatag catgcaactg tgtttaggt 180
tacatcggcg aacgttgcca gtatcgcgac ctgaaatggg gggaactgcg taaggcggcc 240
gccctgcac cgaacatgga gaacacaaca tcaggattcc taggaccctt gctcgtgta 300
caggcggggt ttttcttgtt gacaagaatc ctcacaatac cacagagtct agactcgtgg 360
tggacttctc tcaattttct agggggagca cccacgtgtc ctggccaaaa ttcgcagtcc 420
ccaacctcca atcactcacc aacctcttgt cctccaattt gtcctggcta tcgctggatg 480
tgtctgcggc gttttatcat attcctcttc atcctgctgc tatgcctcat cttcttggtg 540
gttcttctgg actaccaagg tatgttgccc gtttgtcctc tacttccagg aacatcaacc 600
accagcacgg ggccatgcaa gacctgcacg attcctgtctc gaggaacctc tatgtttccc 660

```

Sequence Listing.txt

```
tcttgttgct gtacaaaacc ttcggacaga aactgcactt gtattcccat cccatcatcc 720
tgggcttttcg caagattcct atgggagtg gcctcagtcg gtttctcctg gctcagttta 780
ctagtgccat ttgttcagtg gttcgtaggg ctttcccca ctgtttggct ttcagttata 840
tggatgatgt ggtattgggg gccaaagtct tacaacatct tgagtcctt tttacctta 900
ttaccaatit tcttttgct ttgggtatac att 933
```

<210> 45

<211> 311

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 45

Met Gly Thr Asn Leu Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp
1 5 10 15

His Gln Leu Asp Gly Gly Arg Met Asn Ser Asp Ser Glu Cys Pro Leu
20 25 30

Ser His Asp Gly Tyr Cys Leu His Asp Gly Val Cys Met Tyr Ile Glu
35 40 45

Ala Leu Asp Lys Tyr Ala Cys Asn Cys Val Val Gly Tyr Ile Gly Glu
50 55 60

Arg Cys Gln Tyr Arg Asp Leu Lys Trp Trp Glu Leu Arg Lys Ala Ala
65 70 75 80

Ala Pro Ala Pro Asn Met Glu Asn Thr Thr Ser Gly Phe Leu Gly Pro
85 90 95

Leu Leu Val Leu Gln Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr
100 105 110

Ile Pro Gln Ser Leu Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly
115 120 125

Gly Ala Pro Thr Cys Pro Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn
130 135 140

His Ser Pro Thr Ser Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp Met
145 150 155 160

Cys Leu Arg Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu
165 170 175

Ile Phe Leu Leu Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys
180 185 190

Pro Leu Leu Pro Gly Thr Ser Thr Thr Ser Thr Gly Pro Cys Lys Thr
195 200 205

Cys Thr Ile Pro Ala Arg Gly Thr Ser Met Phe Pro Ser Cys Cys Cys
210 215 220

Thr Lys Pro Ser Asp Arg Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser
225 230 235 240

Trp Ala Phe Ala Arg Phe Leu Trp Glu Trp Ala Ser Val Arg Phe Ser
Page 20

Sequence Listing.txt

```

                245                      250                      255
Trp Leu Ser Leu Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser
                260                      265                      270
Pro Thr Val Trp Leu Ser Val Ile Trp Met Met Trp Tyr Trp Gly Pro
                275                      280                      285
Ser Leu Tyr Asn Ile Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe
                290                      295                      300
Phe Cys Leu Trp Val Tyr Ile
305                      310

```

<210> 46
 <211> 792
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Artificially
 synthesized sequence

```

<400> 46
atggggacga atctttctgt tccaatcct ctgggattct ttcccgatca ccagttggac 60
ggcggccgct ggagccaccc gcagttcgaa aaagcggccg cccctgcacc gaacatggag 120
aacacaacat caggattcct aggaccctg ctcgtgttac aggcggggtt tttcttggtg 180
acaagaatcc tcacaatacc acagagtcta gactcgtggt ggacttctct caattttcta 240
gggggagcac ccacgtgtcc tggccaaaat tcgcagtcct caacctcaa tcactcacca 300
acctcttgtc ctccaatttg tcctggctat cgctggatgt gtctgcggcg ttttatcata 360
ttcctcttca tcctgctgct atgcctcatc ttcttggttg ttcttctgga ctaccaaggt 420
atgttgcccg tttgtcctct acttccagga acatcaacca ccagcacggg gccatgcaag 480
acctgcacga ttctgtctca aggaacctct atgtttccct cttgttgctg tacaaaacct 540
tcggacggaa actgcacttg tattcccatc ccatcatcct gggctttcgc aagattccta 600
tgggagtggt cctcagtcctg tttctcctgg ctcagtttac tagtgccatt tgttcagtg 660
ttcgtagggc tttccccac tgtttggtt tcagttatat ggatgatgtg gtattggggg 720
ccaagtctgt acaacatctt gagtcccttt ttacctctat taccaatttt cttttgtctt 780
tggtatata tt 792

```

<210> 47
 <211> 264
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Artificially
 synthesized sequence

```

<400> 47
Met Gly Thr Asn Leu Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp
  1                      5                      10                      15
His Gln Leu Asp Gly Gly Arg Trp Ser His Pro Gln Phe Glu Lys Ala
                20                      25                      30
Ala Ala Pro Ala Pro Asn Met Glu Asn Thr Thr Ser Gly Phe Leu Gly
                35                      40                      45
Pro Leu Leu Val Leu Gln Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu
  50                      55                      60

```

Sequence Listing.txt

Thr Ile Pro Gln Ser Leu Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu
 65 70 75 80
 Gly Gly Ala Pro Thr Cys Pro Gly Gln Asn Ser Gln Ser Pro Thr Ser
 85 90 95
 Asn His Ser Pro Thr Ser Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp
 100 105 110
 Met Cys Leu Arg Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys
 115 120 125
 Leu Ile Phe Leu Leu Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val
 130 135 140
 Cys Pro Leu Leu Pro Gly Thr Ser Thr Thr Ser Thr Gly Pro Cys Lys
 145 150 155 160
 Thr Cys Thr Ile Pro Ala Gln Gly Thr Ser Met Phe Pro Ser Cys Cys
 165 170 175
 Cys Thr Lys Pro Ser Asp Gly Asn Cys Thr Cys Ile Pro Ile Pro Ser
 180 185 190
 Ser Trp Ala Phe Ala Arg Phe Leu Trp Glu Trp Ala Ser Val Arg Phe
 195 200 205
 Ser Trp Leu Ser Leu Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu
 210 215 220
 Ser Pro Thr Val Trp Leu Ser Val Ile Trp Met Met Trp Tyr Trp Gly
 225 230 235 240
 Pro Ser Leu Tyr Asn Ile Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile
 245 250 255
 Phe Phe Cys Leu Trp Val Tyr Ile
 260

<210> 48

<211> 792

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 48

atggggacga	atctttctgt	tccaatcct	ctgggattct	ttcccgatca	ccagttggac	60
ggcggccgct	ggagccaccc	gcagttcgaa	aaagcggccg	cccctgcacc	gaacatggag	120
aacacaacat	caggattcct	aggacccctg	ctcgtgttac	aggcgggggt	tttcttggtg	180
acaagaatcc	tcacaatacc	acagagtcta	gactcgtggt	ggactttctt	caattttcta	240
gggggagcac	ccacgtgtcc	tggccaaaat	tcgcagtccc	caacctccaa	tcactcacca	300
acctctgtgc	ctccaatttg	tcctggctat	cgctggatgt	gtctgcggcg	ttttatcata	360
ttcctcttca	tcctgctgct	atgcctcatc	ttcttggttg	ttcttctgga	ctaccaaggt	420
atgttgcccg	tttgtcctct	acttccagga	acatcaacca	ccagcacggg	gccatgcaag	480
acctgcacga	ttcctgctcg	aggaaacctt	atgtttccct	cttgttgctg	tacaaaacct	540
tcggacggaa	actgcacttg	tattcccatc	ccatcatcct	gggctttcgc	aagattccta	600
tgggagtggt	cctcagtcct	tttctcctgg	ctcagtttac	tagtgccatt	tggttcagtg	660
ttcgtagggc	tttcccccac	tgtttggtct	tcagttatat	ggatgatgtg	gtattggggg	720
ccaagtctgt	acaacatctt	gagtcctttt	ttacctctat	taccaatttt	cttttgcttt	780

tggtatataca tt

<210> 49

<211> 264

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
synthesized sequence

<400> 49

```

Met Gly Thr Asn Leu Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp
 1          5          10          15
His Gln Leu Asp Gly Gly Arg Trp Ser His Pro Gln Phe Glu Lys Ala
          20          25          30
Ala Ala Pro Ala Pro Asn Met Glu Asn Thr Thr Ser Gly Phe Leu Gly
          35          40          45
Pro Leu Leu Val Leu Gln Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu
          50          55          60
Thr Ile Pro Gln Ser Leu Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu
          65          70          75          80
Gly Gly Ala Pro Thr Cys Pro Gly Gln Asn Ser Gln Ser Pro Thr Ser
          85          90          95
Asn His Ser Pro Thr Ser Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp
          100          105          110
Met Cys Leu Arg Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys
          115          120          125
Leu Ile Phe Leu Leu Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val
          130          135          140
Cys Pro Leu Leu Pro Gly Thr Ser Thr Thr Ser Thr Gly Pro Cys Lys
          145          150          155          160
Thr Cys Thr Ile Pro Ala Arg Gly Thr Ser Met Phe Pro Ser Cys Cys
          165          170          175
Cys Thr Lys Pro Ser Asp Gly Asn Cys Thr Cys Ile Pro Ile Pro Ser
          180          185          190
Ser Trp Ala Phe Ala Arg Phe Leu Trp Glu Trp Ala Ser Val Arg Phe
          195          200          205
Ser Trp Leu Ser Leu Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu
          210          215          220
Ser Pro Thr Val Trp Leu Ser Val Ile Trp Met Met Trp Tyr Trp Gly
          225          230          235          240
Pro Ser Leu Tyr Asn Ile Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile
          245          250          255
Phe Phe Cys Leu Trp Val Tyr Ile
          260

```

Sequence Listing.txt

<210> 50
 <211> 792
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 50
 atggggacga atcttttctgt tcccaatcct ctgggattct ttcccgatca ccagttggac 60
 ggcggccgct ggagccaccc gcagttcgaa aaagcggccg cccctgcacc gaacatggag 120
 aacacaacat caggattcct aggacccctg ctctgtgtac aggcgggggt tttcttggtg 180
 acaagaatcc tcacaatacc acagagtcta gactcgtggt ggacttctct caattttcta 240
 ggggggagcac ccacgtgtcc tggccaaaat tcgcagtccc caacctccaa tcactcacca 300
 acctcttgtc ctccaatttg tcctggctat cgctggatgt gtctgcggcg ttttatcata 360
 ttcctcttca tcctgctgct atgcctcatc ttcttggtgg ttcttctgga ctaccaaggt 420
 atgttgcccg tttgtcctct acttccagga acatcaacca ccagcacggg gccatgcaag 480
 acctgcacga ttctgctca aggaacctct atgtttccct cttgttgctg tacaaaacct 540
 tcggacagaa actgcacttg tattcccatc ccatcatcct gggctttcgc aagattccta 600
 tgggagtggg cctcagtcctg tttctcctgg ctacagtttac tagtgccatt tggtcagtg 660
 ttcgtagggc tttccccccac tgtttggtt tcagttatat ggatgatgtg gtattggggg 720
 ccaagtctgt acaacatctt gagtcccttt ttacctctat taccaatttt cttttgtctt 780
 tgggtatata tt 792

<210> 51
 <211> 264
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 51
 Met Gly Thr Asn Leu Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp
 1 5 10 15
 His Gln Leu Asp Gly Gly Arg Trp Ser His Pro Gln Phe Glu Lys Ala
 20 25 30
 Ala Ala Pro Ala Pro Asn Met Glu Asn Thr Thr Ser Gly Phe Leu Gly
 35 40 45
 Pro Leu Leu Val Leu Gln Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu
 50 55 60
 Thr Ile Pro Gln Ser Leu Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu
 65 70 75 80
 Gly Gly Ala Pro Thr Cys Pro Gly Gln Asn Ser Gln Ser Pro Thr Ser
 85 90 95
 Asn His Ser Pro Thr Ser Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp
 100 105 110
 Met Cys Leu Arg Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys
 115 120 125
 Leu Ile Phe Leu Leu Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val

Sequence Listing.txt

130

135

140

Cys Pro Leu Leu Pro Gly Thr Ser Thr Thr Ser Thr Gly Pro Cys Lys
 145 150 155 160
 Thr Cys Thr Ile Pro Ala Gln Gly Thr Ser Met Phe Pro Ser Cys Cys
 165 170 175
 Cys Thr Lys Pro Ser Asp Arg Asn Cys Thr Cys Ile Pro Ile Pro Ser
 180 185 190
 Ser Trp Ala Phe Ala Arg Phe Leu Trp Glu Trp Ala Ser Val Arg Phe
 195 200 205
 Ser Trp Leu Ser Leu Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu
 210 215 220
 Ser Pro Thr Val Trp Leu Ser Val Ile Trp Met Met Trp Tyr Trp Gly
 225 230 235 240
 Pro Ser Leu Tyr Asn Ile Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile
 245 250 255
 Phe Phe Cys Leu Trp Val Tyr Ile
 260

<210> 52
 <211> 792
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Artificially
 synthesized sequence

<400> 52
 atggggacga atcttttctgt tcccaatcct ctgggattct ttcccgatca ccagttggac 60
 ggcggccgct ggagccaccc gcagttcgaa aaagcggccg cccctgcacc gaacatggag 120
 aacacaacat caggattcct aggacccctg ctctgtgttac aggcgggggt tttcttgttg 180
 acaagaatcc tcacaatacc acagagtcta gactcgtggg ggacttctct caattttcta 240
 gggggagcac ccacgtgtcc tggccaaaat tcgcagtcct caacctccaa tcactcacca 300
 acctcttgtc ctccaatttg ttctggctat cgctggatgt gtctgcggcg ttttatcata 360
 ttcctcttca tcttgctgtc atgcctcatc ttcttgttgg ttcttctgga ctaccaaggt 420
 atgttgcccg tttgtcctct acttccagga acatcaacca ccagcacggg gccatgcaag 480
 acctgcacga ttcttgctcg aggaacctct atgtttccct ctgtgtgctg tacaaaacct 540
 tcggacagaa actgcacttg tattcccatc ccatcatcct gggctttcgc aagattccta 600
 tgggagtggg cctcagtcctg tttctcctgg ctcagtttac tagtgccatt tgttcagtgg 660
 ttcgtagggc tttccccac tgtttggctt tcagttatat ggatgatgtg gtattggggg 720
 ccaagtctgt acaacatctt gagtcccttt ttacctctat taccaatttt cttttgtctt 780
 tgggtatata tt 792

<210> 53
 <211> 264
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Artificially
 synthesized sequence

<400> 53

Sequence Listing.txt

Met Gly Thr Asn Leu Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp
1 5 10 15
His Gln Leu Asp Gly Gly Arg Trp Ser His Pro Gln Phe Glu Lys Ala
20 25 30
Ala Ala Pro Ala Pro Asn Met Glu Asn Thr Thr Ser Gly Phe Leu Gly
35 40 45
Pro Leu Leu Val Leu Gln Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu
50 55 60
Thr Ile Pro Gln Ser Leu Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu
65 70 75 80
Gly Gly Ala Pro Thr Cys Pro Gly Gln Asn Ser Gln Ser Pro Thr Ser
85 90 95
Asn His Ser Pro Thr Ser Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp
100 105 110
Met Cys Leu Arg Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys
115 120 125
Leu Ile Phe Leu Leu Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val
130 135 140
Cys Pro Leu Leu Pro Gly Thr Ser Thr Thr Ser Thr Gly Pro Cys Lys
145 150 155 160
Thr Cys Thr Ile Pro Ala Arg Gly Thr Ser Met Phe Pro Ser Cys Cys
165 170 175
Cys Thr Lys Pro Ser Asp Arg Asn Cys Thr Cys Ile Pro Ile Pro Ser
180 185 190
Ser Trp Ala Phe Ala Arg Phe Leu Trp Glu Trp Ala Ser Val Arg Phe
195 200 205
Ser Trp Leu Ser Leu Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu
210 215 220
Ser Pro Thr Val Trp Leu Ser Val Ile Trp Met Met Trp Tyr Trp Gly
225 230 235 240
Pro Ser Leu Tyr Asn Ile Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile
245 250 255
Phe Phe Cys Leu Trp Val Tyr Ile
260

<210> 54

<211> 1170

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
synthesized sequence

<400> 54

atggggacga atctttctgt tcccaatcct ctgggattct ttcccgatca ccagttggac 60

Sequence Listing.txt

```

cctgcgttcg gagccaactc aaacaatcca gattggggcg gccgcgcgca acacgatgaa 120
gccgtagaca acaaattcaa caaagaacaa caaaacgcgt tctatgagat cttacattta 180
cctaacttaa acgaagaaca acgaaacgcc ttcattccaaa gtttaaaaga tgaccaaacg 240
caaagcgcta accttttagc agaagctaaa aagctaaatg atgctcaggc gccgaaagta 300
gacaacaaat tcaacaaaaga acaacaaaac gcgttctatg agatcttaca ttacctaac 360
ttaaacgaag aacaacgaaa cgccttcac caaagttaa aagatgacc aagccaaagc 420
gctaaccctt tagcagaagc taaaaagcta aatgatgctc aggcgccgaa agcgccgcc 480
cctgcaccga acatggagaa cacaacatca ggattcctag gacctctgct cgtgttacag 540
gcgggggttt tcttggtgac aagaatcctc acaataccac agagtctaga ctcgtggtg 600
acttctctca attttctagg gggagcacc acgtgtcctg gccaaaattc gcagtcccca 660
acctccaatc actcaccaac ctcttgctc ccaatttgc ctggctatcg ctggatgtgt 720
ctgcggcggt ttatcatatt cctcttcac ctgctgctat gcctcatctt cttggtggtt 780
cttctggact accaaggtat gttgcccgtt tgcctctac ttccaggaa atcaaccacc 840
agcacggggc catgcaagac ctgcacgatt ctgctcaag gaacctctat gtttccctct 900
tggtgctgta caaaaccttc ggacggaaac tgcacttgta ttcccatccc atcatcctg 960
gctttcgcaa gattcctatg ggagtgggct tcagtccgtt tctcctggct cagtttacta 1020
gtgccatttg ttcagtgggt cgtagggtt tccccactg tttggctttc agttatatg 1080
atgatgtggt attgggggcc aagtcgtgac aacatcttga gtccctttt acctctatta 1140
ccaattttct tttgtctttt ggtatacatt 1170

```

<210> 55

<211> 390

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 55

Met Gly Thr Asn Leu Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp
1 5 10 15

His Gln Leu Asp Pro Ala Phe Gly Ala Asn Ser Asn Asn Pro Asp Trp
20 25 30

Gly Gly Arg Ala Gln His Asp Glu Ala Val Asp Asn Lys Phe Asn Lys
35 40 45

Glu Gln Gln Asn Ala Phe Tyr Glu Ile Leu His Leu Pro Asn Leu Asn
50 55 60

Glu Glu Gln Arg Asn Ala Phe Ile Gln Ser Leu Lys Asp Asp Pro Ser
65 70 75 80

Gln Ser Ala Asn Leu Leu Ala Glu Ala Lys Lys Leu Asn Asp Ala Gln
85 90 95

Ala Pro Lys Val Asp Asn Lys Phe Asn Lys Glu Gln Gln Asn Ala Phe
100 105 110

Tyr Glu Ile Leu His Leu Pro Asn Leu Asn Glu Glu Gln Arg Asn Ala
115 120 125

Phe Ile Gln Ser Leu Lys Asp Asp Pro Ser Gln Ser Ala Asn Leu Leu
130 135 140

Ala Glu Ala Lys Lys Leu Asn Asp Ala Gln Ala Pro Lys Ala Ala Ala
145 150 155 160

Pro Ala Pro Asn Met Glu Asn Thr Thr Ser Gly Phe Leu Gly Pro Leu
165 170 175

Sequence Listing.txt

Leu Val Leu Gln Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile
180 185 190
Pro Gln Ser Leu Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly
195 200 205
Ala Pro Thr Cys Pro Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn His
210 215 220
Ser Pro Thr Ser Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp Met Cys
225 230 235 240
Leu Arg Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile
245 250 255
Phe Leu Leu Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro
260 265 270
Leu Leu Pro Gly Thr Ser Thr Thr Ser Thr Gly Pro Cys Lys Thr Cys
275 280 285
Thr Ile Pro Ala Gln Gly Thr Ser Met Phe Pro Ser Cys Cys Cys Thr
290 295 300
Lys Pro Ser Asp Gly Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp
305 310 315 320
Ala Phe Ala Arg Phe Leu Trp Glu Trp Ala Ser Val Arg Phe Ser Trp
325 330 335
Leu Ser Leu Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro
340 345 350
Thr Val Trp Leu Ser Val Ile Trp Met Met Trp Tyr Trp Gly Pro Ser
355 360 365
Leu Tyr Asn Ile Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe Phe
370 375 380
Cys Leu Trp Val Tyr Ile
385 390

<210> 56

<211> 1170

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 56

```
atgggggacga atctttctgt tccaatcct ctgggattct ttcccgatca ccagttggac 60
ctgcgttcg gagccaactc aaacaatcca gattggggcg gccgcgcgca acacgatgaa 120
gccgtagaca acaaattcaa caaagaacaa caaaacgcgt tctatgagat cttacattta 180
cctaacttaa acgaagaaca acgaaacgcc ttcattcaaa gttaaaga tgacccaagc 240
caaagcgcta accttttagc agaagctaaa aagctaaatg atgctcaggc gccgaaagta 300
gacaacaaat tcaacaaaga acaacaaaac gcgttctatg agatcttaca ttacctaac 360
ttaaacgaag aacaacgaaa cgccttcac caaagttaa aagatgaccc aagccaaagc 420
gctaaccctt tagcagaagc taaaaagcta aatgatgctc aggcgccgaa agcgccgcc 480
cctgcaccga acatggagaa cacaacatca ggattcctag gaccctgct cgtgttacag 540
```


Sequence Listing.txt

```

gcgggggtttt tcttgttgac aagaatcctc acaataaccac agagtctaga ctcgtggtgg 600
acttctctca attttctagg gggagcaccc acgtgtcctg gccaaaattc gcagtcccca 660
acctccaatc actcaccaac ctcttgcctt ccaatttgtc ctggctatcg ctggatgtgt 720
ctgcggcggtt ttatcatatt cctcttcac cctgctgctat gcctcatctt cttgttggtt 780
cttctggact accaagggtat gttgcccgtt tgtcctctac ttccaggaac atcaaccacc 840
agcacggggc catgcaagac ctgcacgatt cctgctcgag gaacctctat gtttccctct 900
tggttctgta caaaaccttc ggacggaaac tgcacttgta ttcccatccc atcatcctgg 960
gctttcgcaa gattcctatg ggagtgggct tcagtcctgt tctcctggct cagtttacta 1020
gtgccatttg ttccagtgggt cgtagggcct tccccactg tttggctttc agttatatgg 1080
atgatgtggt attgggggcc aagtctgtac aacatcttga gtcccttttt acctctatta 1140
ccaattttct tttgtctttg ggtatacatt                                     1170

```

<210> 57

<211> 390

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 57

```

Met Gly Thr Asn Leu Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp
 1           5           10           15

```

```

His Gln Leu Asp Pro Ala Phe Gly Ala Asn Ser Asn Asn Pro Asp Trp
           20           25           30

```

```

Gly Gly Arg Ala Gln His Asp Glu Ala Val Asp Asn Lys Phe Asn Lys
 35           40           45

```

```

Glu Gln Gln Asn Ala Phe Tyr Glu Ile Leu His Leu Pro Asn Leu Asn
 50           55           60

```

```

Glu Glu Gln Arg Asn Ala Phe Ile Gln Ser Leu Lys Asp Asp Pro Ser
 65           70           75           80

```

```

Gln Ser Ala Asn Leu Leu Ala Glu Ala Lys Lys Leu Asn Asp Ala Gln
 85           90           95

```

```

Ala Pro Lys Val Asp Asn Lys Phe Asn Lys Glu Gln Gln Asn Ala Phe
100           105           110

```

```

Tyr Glu Ile Leu His Leu Pro Asn Leu Asn Glu Glu Gln Arg Asn Ala
115           120           125

```

```

Phe Ile Gln Ser Leu Lys Asp Asp Pro Ser Gln Ser Ala Asn Leu Leu
130           135           140

```

```

Ala Glu Ala Lys Lys Leu Asn Asp Ala Gln Ala Pro Lys Ala Ala Ala
145           150           155           160

```

```

Pro Ala Pro Asn Met Glu Asn Thr Thr Ser Gly Phe Leu Gly Pro Leu
165           170           175

```

```

Leu Val Leu Gln Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile
180           185           190

```

```

Pro Gln Ser Leu Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly
195           200           205

```

Ala Pro Thr Cys Pro Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn His

Sequence Listing.txt

210

215

220

```

Ser Pro Thr Ser Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp Met Cys
225                230                235                240

Leu Arg Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile
                245                250                255

Phe Leu Leu Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro
                260                265                270

Leu Leu Pro Gly Thr Ser Thr Thr Ser Thr Gly Pro Cys Lys Thr Cys
                275                280                285

Thr Ile Pro Ala Arg Gly Thr Ser Met Phe Pro Ser Cys Cys Cys Thr
                290                295                300

Lys Pro Ser Asp Gly Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp
305                310                315                320

Ala Phe Ala Arg Phe Leu Trp Glu Trp Ala Ser Val Arg Phe Ser Trp
                325                330                335

Leu Ser Leu Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro
                340                345                350

Thr Val Trp Leu Ser Val Ile Trp Met Met Trp Tyr Trp Gly Pro Ser
                355                360                365

Leu Tyr Asn Ile Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe Phe
                370                375                380

Cys Leu Trp Val Tyr Ile
385                390

```

<210> 58

<211> 1170

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 58

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atgggggacga atcttttctgt tcccaatcct ctgggattct ttcccgatca ccagttggac 60
cctgcgttcg gagccaactc aaacaatcca gattggggcg gccgcgcgca acacgatgaa 120
gccgtagaca acaaattcaa caaagaacaa caaaacgcgt tctatgagat cttacattta 180
cctaacttaa acgaagaaca acgaaacgcc ttcatccaaa gtttaaaaga tgaccaagc 240
caaagcgcta accttttagc agaagctaaa aagctaaatg atgctcaggc gccgaaagta 300
gacaacaaat tcaacaaaga acaacaaaac gcgttctatg agatcttaca ttacctaac 360
ttaaacgaag aacaacgaaa cgccttcatc caaagttaa aagatgacct aagccaaagc 420
gctaaccttt tagcagaagc taaaaagcta aatgatgctc aggcgcgcaa agcggccgcc 480
cctgcaccga acatggagaa cacaacatca ggattcctag gaccctgct cgtgttacag 540
gcgggggttt tcttggtgac aagaatcctc acaataccac agagtctaga ctcgtggtg 600
acttctctca attttctagg gggagcacc acgtgtcctg gccaaaattc gcagtcccca 660
acctccaatc actcaccaac ctcttgctct ccaatttgct ctggctatcg ctggatgtgt 720
ctgcggcggt ttatcatatt cctcttcatc ctgctgctat gcctcatctt cttgttggtt 780
cttctggact accaaggtat gttgcccgtt tgtcctctac ttccaggaac atcaaccacc 840
agcacggggc catgaagac ctgcacgatt ctgctcaag gaacctctat gtttccctct 900
tgttgctgta caaaccttc ggacagaaac tgcacttgta ttcccatccc atcatcctgg 960
gctttcgcaa gattcctatg ggagtgggcc tcagtccgtt tctcctggct cagtttacta 1020

```

Sequence Listing.txt

gtgccatttg ttcagtgggt cgtagggctt tccccactg tttggctttc agttatatgg 1080
atgatgtggt attgggggcc aagtctgtac aacatcttga gtcccttttt acctctatta 1140
ccaattttct tttgtctttg ggtatacatt 1170

<210> 59

<211> 390

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
synthesized sequence

<400> 59

Met Gly Thr Asn Leu Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp
1 5 10 15

His Gln Leu Asp Pro Ala Phe Gly Ala Asn Ser Asn Asn Pro Asp Trp
20 25 30

Gly Gly Arg Ala Gln His Asp Glu Ala Val Asp Asn Lys Phe Asn Lys
35 40 45

Glu Gln Gln Asn Ala Phe Tyr Glu Ile Leu His Leu Pro Asn Leu Asn
50 55 60

Glu Glu Gln Arg Asn Ala Phe Ile Gln Ser Leu Lys Asp Asp Pro Ser
65 70 75 80

Gln Ser Ala Asn Leu Leu Ala Glu Ala Lys Lys Leu Asn Asp Ala Gln
85 90 95

Ala Pro Lys Val Asp Asn Lys Phe Asn Lys Glu Gln Gln Asn Ala Phe
100 105 110

Tyr Glu Ile Leu His Leu Pro Asn Leu Asn Glu Glu Gln Arg Asn Ala
115 120 125

Phe Ile Gln Ser Leu Lys Asp Asp Pro Ser Gln Ser Ala Asn Leu Leu
130 135 140

Ala Glu Ala Lys Lys Leu Asn Asp Ala Gln Ala Pro Lys Ala Ala Ala
145 150 155 160

Pro Ala Pro Asn Met Glu Asn Thr Thr Ser Gly Phe Leu Gly Pro Leu
165 170 175

Leu Val Leu Gln Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile
180 185 190

Pro Gln Ser Leu Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly
195 200 205

Ala Pro Thr Cys Pro Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn His
210 215 220

Ser Pro Thr Ser Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp Met Cys
225 230 235 240

Leu Arg Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile
245 250 255

Sequence Listing.txt

Phe Leu Leu Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro
260 270
Leu Leu Pro Gly Thr Ser Thr Thr Ser Thr Gly Pro Cys Lys Thr Cys
275 280 285
Thr Ile Pro Ala Gln Gly Thr Ser Met Phe Pro Ser Cys Cys Cys Thr
290 295 300
Lys Pro Ser Asp Arg Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp
305 310 315 320
Ala Phe Ala Arg Phe Leu Trp Glu Trp Ala Ser Val Arg Phe Ser Trp
325 330 335
Leu Ser Leu Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro
340 345 350
Thr Val Trp Leu Ser Val Ile Trp Met Met Trp Tyr Trp Gly Pro Ser
355 360 365
Leu Tyr Asn Ile Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe Phe
370 375 380
Cys Leu Trp Val Tyr Ile
385 390

<210> 60

<211> 1170

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
synthesized sequence

<400> 60

atgggggacga	atcttttctgt	tcccaatcct	ctgggattct	ttcccgatca	ccagttggac	60
cctgcgttcg	gagccaactc	aaacaatcca	gattggggcg	gccgcgcgca	acacgatgaa	120
gccgtagaca	acaaattcaa	caaagaacaa	caaaacgcgt	tctatgagat	cttacattta	180
cctaacttaa	acgaagaaca	acgaaacgcc	ttcatccaaa	gtttaaaaga	tgaccaagc	240
caaagcgcta	accttttagc	agaagctaaa	aagctaaatg	atgctcaggc	gccgaaagta	300
gacaacaaat	tcaacaaaga	acaacaaaac	gcgttctatg	agatcttaca	tttacctaac	360
ttaaacgaag	aacaacgaaa	cgccttcac	caaagttaa	aagatgacct	aagccaaagc	420
gctaaccctt	tagcagaagc	taaaaagcta	aatgatgctc	aggcgccgaa	agcggccgcc	480
cctgcaccga	acatggagaa	cacaacatca	ggattcctag	gacccctgct	cgtgttacag	540
gcgggggttt	tcttggtgac	aagaatcctc	acaataccac	agagtctaga	ctcgtggtgg	600
acttctctca	attttctagg	gggagcacc	acgtgtcctg	gccaaaattc	gcagtcccca	660
acctccaatc	actcaccaac	ctcttgctct	ccaatttgct	ctggctatcg	ctggatgtgt	720
ctgcggcggt	ttatcatatt	cctcttcac	ctgctgctat	gcctcatctt	cttggtggtt	780
cttctggact	accaaggtat	gttgcccgtt	tgtcctctac	ttccaggaac	atcaaccacc	840
agcacggggc	catgcaagac	ctgcacgatt	cctgctcgag	gaacctctat	gtttccctct	900
tgttgctgta	caaaaccttc	ggacagaaac	tgcacttgta	ttcccatccc	atcatcctgg	960
gctttcgcaa	gattcctatg	ggagtgggccc	tcagtcggtt	tctcctggct	cagtttacta	1020
gtgccatttg	ttcagtggtt	cgtagggctt	tccccactg	tttggttttc	agttatatgg	1080
atgatgtggt	attggggggc	aagtctgtac	aacatcttga	gtcccttttt	acctctatta	1140
ccaattttct	tttgctttg	ggtatacatt				1170

<210> 61

<211> 390

<212> PRT

Sequence Listing.txt

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 61

```

Met Gly Thr Asn Leu Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp
 1           5           10           15
His Gln Leu Asp Pro Ala Phe Gly Ala Asn Ser Asn Asn Pro Asp Trp
           20           25           30
Gly Gly Arg Ala Gln His Asp Glu Ala Val Asp Asn Lys Phe Asn Lys
           35           40           45
Glu Gln Gln Asn Ala Phe Tyr Glu Ile Leu His Leu Pro Asn Leu Asn
           50           55           60
Glu Glu Gln Arg Asn Ala Phe Ile Gln Ser Leu Lys Asp Asp Pro Ser
           65           70           75           80
Gln Ser Ala Asn Leu Leu Ala Glu Ala Lys Lys Leu Asn Asp Ala Gln
           85           90           95
Ala Pro Lys Val Asp Asn Lys Phe Asn Lys Glu Gln Gln Asn Ala Phe
          100          105          110
Tyr Glu Ile Leu His Leu Pro Asn Leu Asn Glu Glu Gln Arg Asn Ala
          115          120          125
Phe Ile Gln Ser Leu Lys Asp Asp Pro Ser Gln Ser Ala Asn Leu Leu
          130          135          140
Ala Glu Ala Lys Lys Leu Asn Asp Ala Gln Ala Pro Lys Ala Ala Ala
          145          150          155          160
Pro Ala Pro Asn Met Glu Asn Thr Thr Ser Gly Phe Leu Gly Pro Leu
          165          170          175
Leu Val Leu Gln Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile
          180          185          190
Pro Gln Ser Leu Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly
          195          200          205
Ala Pro Thr Cys Pro Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn His
          210          215          220
Ser Pro Thr Ser Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp Met Cys
          225          230          235          240
Leu Arg Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile
          245          250          255
Phe Leu Leu Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro
          260          265          270
Leu Leu Pro Gly Thr Ser Thr Thr Ser Thr Gly Pro Cys Lys Thr Cys
          275          280          285
Thr Ile Pro Ala Arg Gly Thr Ser Met Phe Pro Ser Cys Cys Cys Thr
          290          295          300

```

Sequence Listing.txt

Lys Pro Ser Asp Arg Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp
 305 310 315 320
 Ala Phe Ala Arg Phe Leu Trp Glu Trp Ala Ser Val Arg Phe Ser Trp
 325 330 335
 Leu Ser Leu Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro
 340 345 350
 Thr Val Trp Leu Ser Val Ile Trp Met Met Trp Tyr Trp Gly Pro Ser
 355 360 365
 Leu Tyr Asn Ile Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe Phe
 370 375 380
 Cys Leu Trp Val Tyr Ile
 385 390

<210> 62
 <211> 969
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Artificially
 synthesized sequence

<400> 62
 atggggacga atcttttctgt tccaatcct ctgggattct ttcccgatca ccagttggac 60
 cctgcgttcg gagccaactc aaacaatcca gattggggcg gccgcatgaa ctctgattcc 120
 gaatgcccgc tgtctcatga cggttactgc ctgcatgatg gcgtatgcat gtacatcgaa 180
 gctctggaca aatacgcatt caactgtggt gtaggttaca tcggcgaacg ttgccagtat 240
 cgcgacctga aatgggtggga actgcgtaag gcggccgccc ctgcaccgaa catggagaac 300
 acaacatcag gattcctagg acccctgctc gtgttacagg cgggggtttt cttgttgaca 360
 agaatcctca caataccaca gagtctagac tcgtgggtgga cttctctcaa ttttctaggg 420
 ggagcaccga cgtgtcctgg ccaaaattcg cagtcccca cctccaatca ctcaccaacc 480
 tcttgtcctc caatttgtcc tggctatcgc tggatgtgtc tgcggcggtt tatcatattc 540
 ctcttcattc tgctgctatg cctcatcttc ttgttggttc ttctggacta ccaaggtatg 600
 ttgcccgttt gtcctctact tccaggaaca tcaaccacca gcacggggcc atgcaagacc 660
 tgcacgattc ctgctcaagg aacctctatg tttccctctt gttgctgtac aaaaccttcg 720
 gacggaaact gcacttgat tcccatccca tcattcctgg ctttcgcaag attcctatgg 780
 gagtggggcct cagtcggttt ctcttggttc agtttactag tgccatttgt tcagtgggtc 840
 gtaggggcttt ccccccactgt ttggctttca gttatatgga tgatgtggta ttggggggcca 900
 agtctgtaca acatcttgag tcccttttta cctctattac caattttctt ttgtctttgg 960
 gtatacatt 969

<210> 63
 <211> 323
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Artificially
 synthesized sequence

<400> 63
 Met Gly Thr Asn Leu Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp
 1 5 10 15

His Gln Leu Asp Pro Ala Phe Gly Ala Asn Ser Asn Asn Pro Asp Trp
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Sequence Listing.txt

20

25

30

Gly Gly Arg Met Asn Ser Asp Ser Glu Cys Pro Leu Ser His Asp Gly
 35 40 45
 Tyr Cys Leu His Asp Gly Val Cys Met Tyr Ile Glu Ala Leu Asp Lys
 50 55 60
 Tyr Ala Cys Asn Cys Val Val Gly Tyr Ile Gly Glu Arg Cys Gln Tyr
 65 70 75 80
 Arg Asp Leu Lys Trp Trp Glu Leu Arg Lys Ala Ala Ala Pro Ala Pro
 85 90 95
 Asn Met Glu Asn Thr Thr Ser Gly Phe Leu Gly Pro Leu Leu Val Leu
 100 105 110
 Gln Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser
 115 120 125
 Leu Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Ala Pro Thr
 130 135 140
 Cys Pro Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn His Ser Pro Thr
 145 150 155 160
 Ser Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg Arg
 165 170 175
 Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu
 180 185 190
 Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu Leu Pro
 195 200 205
 Gly Thr Ser Thr Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr Ile Pro
 210 215 220
 Ala Gln Gly Thr Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro Ser
 225 230 235 240
 Asp Gly Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe Ala
 245 250 255
 Arg Phe Leu Trp Glu Trp Ala Ser Val Arg Phe Ser Trp Leu Ser Leu
 260 265 270
 Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp
 275 280 285
 Leu Ser Val Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr Asn
 290 295 300
 Ile Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu Trp
 305 310 315 320
 Val Tyr Ile

<210> 64
 <211> 969
 <212> DNA

Sequence Listing.txt

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 64

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atggggacga atctttctgt tcccaatcct ctgggattct ttcccgatca ccagttggac 60
cctgcgttcg gagccaactc aaacaatcca gattggggcg gccgcatgaa ctctgattcc 120
gaatgcccgc tgtctcatga cggttactgc ctgcatgatg gcgtatgcat gtacatcgaa 180
gctctggaca aatacgcatg caactgtgtt gtaggttaca tcggcgaacg ttgccagtat 240
cgcgacctga aatggtggga actgcgtaag gcggccgccc ctgcaccgaa catggagAAC 300
acaacatcag gattcctagg accctgctc gtgttacagg cggggttttt cttgttgaca 360
agaatcctca caataccaca gagtctagac tcgtggtgga cttctctcaa ttttctaggg 420
ggagcaccca cgtgtcctgg ccaaaattcg cagtcctcaa cctccaatca ctcaccaacc 480
tcttgccttc caattgtcc tggctatcgc tggatgtgtc tgcggcgttt tatcatattc 540
ctcttcaccc tgctgctatg cctcatcttc ttgttggttc ttctggacta ccaaggtatg 600
ttgcccgttt gtctcttact tccaggaaca tcaaccacca gcacggggcc atgcaagacc 660
tgcacgattc ctgctcgagg aacctctatg ttccctctt gttgctgtac aaaaccttcg 720
gacggaaact gcacttgat tcccatccca tcatcctggg ctttcgcaag attcctatgg 780
gagtgggcct cagtcctgtt ctcctggctc agtttactag tgccatttgt tcagtggttc 840
gtagggtttt cccccactgt ttggctttca gttatatgga tgatgtggta ttgggggcca 900
agtctgtaca acatcttgag tcccttttta cctctattac caattttctt ttgtctttgg 960
gtatacatt
969

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<210> 65

<211> 323

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 65

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Met Gly Thr Asn Leu Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp
1          5          10          15
His Gln Leu Asp Pro Ala Phe Gly Ala Asn Ser Asn Asn Pro Asp Trp
20          25          30
Gly Gly Arg Met Asn Ser Asp Ser Glu Cys Pro Leu Ser His Asp Gly
35          40          45
Tyr Cys Leu His Asp Gly Val Cys Met Tyr Ile Glu Ala Leu Asp Lys
50          55          60
Tyr Ala Cys Asn Cys Val Val Gly Tyr Ile Gly Glu Arg Cys Gln Tyr
65          70          75          80
Arg Asp Leu Lys Trp Trp Glu Leu Arg Lys Ala Ala Ala Pro Ala Pro
85          90          95
Asn Met Glu Asn Thr Thr Ser Gly Phe Leu Gly Pro Leu Leu Val Leu
100         105         110
Gln Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser
115         120         125
Leu Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Ala Pro Thr
130         135         140

```


Sequence Listing.txt

Cys Pro Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn His Ser Pro Thr
145 150 155 160
Ser Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg Arg
165 170 175
Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu
180 185 190
Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu Leu Pro
195 200 205
Gly Thr Ser Thr Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr Ile Pro
210 215 220
Ala Arg Gly Thr Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro Ser
225 230 235 240
Asp Gly Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe Ala
245 250 255
Arg Phe Leu Trp Glu Trp Ala Ser Val Arg Phe Ser Trp Leu Ser Leu
260 265 270
Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp
275 280 285
Leu Ser Val Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr Asn
290 295 300
Ile Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu Trp
305 310 315 320
Val Tyr Ile

<210> 66
<211> 969
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Artificially
synthesized sequence

<400> 66
atggggacga atctttctgt tccaatcct ctgggattct ttcccgatca ccagttggac 60
cctgcgttcg gagccaactc aaacaatcca gattggggcg gccgcatgaa ctctgattcc 120
gaatgcccgc tgtctcatga cggttactgc ctgcatgatg gcgtatgcat gtacatcgaa 180
gctctggaca aatacgcgat caactgtgtt gtaggttaca tcggcgaacg ttgccagtat 240
cgcgacctga aatgggtggga actgcgtaag gcggccgccc ctgcaccgaa catggagaac 300
acaacatcag gattcctagg acccctgctc gtgttacagg cgggggtttt cttgttgaca 360
agaatcctca caataccaca gagtctagac tcgtggtgga cttctctcaa ttttctaggg 420
ggagcaccga cgtgtcctcg ccaaaattcg cagtcctccaa cctccaatca ctcaccaacc 480
tcttgtcctc caatttgtcc tggctatcgc tggatgtgtc tgcggcgttt tatcatattc 540
ctcttcaccc tgctgctatg cctcatcttc ttgttggttc ttctggacta ccaaggtatg 600
ttgcccgttt gtcctctact tccaggaaca tcaaccacca gcacggggcc atgcaagacc 660
tgcacgattc ctgctcaagg aacctctatg tttccctctt gttgctgtac aaaaccttcg 720
gacagaaact gcacttgat tcccatccca tcatcctggg ctttcgcaag attcctatgg 780
gagtgggcct cagtcctgtt ctccctggctc agtttactag tgccatttgt tcagtgggtc 840
gtagggtttt cccccactgt ttggctttca gttatatgga tgatgtggta ttgggggcca 900
agtctgtaca acatcttgag tcccttttta cctctattac caattttctt ttgtctttgg 960

gtatacatt

<210> 67

<211> 323

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
synthesized sequence

<400> 67

Met Gly Thr Asn Leu Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp
1 5 10 15His Gln Leu Asp Pro Ala Phe Gly Ala Asn Ser Asn Asn Pro Asp Trp
20 25 30Gly Gly Arg Met Asn Ser Asp Ser Glu Cys Pro Leu Ser His Asp Gly
35 40 45Tyr Cys Leu His Asp Gly Val Cys Met Tyr Ile Glu Ala Leu Asp Lys
50 55 60Tyr Ala Cys Asn Cys Val Val Gly Tyr Ile Gly Glu Arg Cys Gln Tyr
65 70 75 80Arg Asp Leu Lys Trp Trp Glu Leu Arg Lys Ala Ala Ala Pro Ala Pro
85 90 95Asn Met Glu Asn Thr Thr Ser Gly Phe Leu Gly Pro Leu Leu Val Leu
100 105 110Gln Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser
115 120 125Leu Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Ala Pro Thr
130 135 140Cys Pro Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn His Ser Pro Thr
145 150 155 160Ser Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg Arg
165 170 175Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu
180 185 190Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu Leu Pro
195 200 205Gly Thr Ser Thr Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr Ile Pro
210 215 220Ala Gln Gly Thr Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro Ser
225 230 235 240Asp Arg Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe Ala
245 250 255Arg Phe Leu Trp Glu Trp Ala Ser Val Arg Phe Ser Trp Leu Ser Leu
260 265 270

Sequence Listing.txt

Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp
 275 280 285
 Leu Ser Val Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr Asn
 290 295 300
 Ile Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu Trp
 305 310 315 320
 Val Tyr Ile

<210> 68
 <211> 969
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Artificially
 synthesized sequence

<400> 68
 atggggacga atctttctgt tcccaatcct ctgggattct ttcccgatca ccagttggac 60
 cctgcgttcg gagccaactc aaacaatcca gattggggcg gccgcatgaa ctctgattcc 120
 gaatgcccgc tgtctcatga cggttactgc ctgcatgatg gcgtatgcat gtacatcgaa 180
 gctctggaca aatacgcatg caactgtgtt gtaggttaca tcggcgaacg ttgccagtat 240
 cgcgacctga aatgggtggga actgcgtaag gcggccgccc ctgcaccgaa catggagaac 300
 acaacatcag gattcctagg acccctgctc gtgttacagg cgggggtttt cttgttgaca 360
 agaatcctca caataccaca gagtctagac tcgtgggtgga cttctctcaa ttttctaggg 420
 ggagcaccga cgtgtccttg ccaaaattcg cagtcccaa cctccaatca ctcaccaacc 480
 tcttgctctc caatttgtcc tggctatcgc tggatgtgtc tgcggcggtt tatcatattc 540
 ctcttcatcc tgctgctatg cctcatcttc ttgttggttc ttctggacta ccaaggtatg 600
 ttgcccgttt gtcccttact tccaggaaca tcaaccacca gcacggggcc atgcaagacc 660
 tgcacgattc ctgctcgagg aacctctatg tttccctctt gttgctgtac aaaaccttcg 720
 gacagaaact gcacttgat tcccatccca tcatcctggg ctttcgcaag attcctatgg 780
 gagtgggcct cagtcggttt ctctggctc agtttactag tgccatttgt tcagtgggtc 840
 gtagggtttt cccccactgt ttggctttca gttatatgga tgatgtggta ttgggggcca 900
 agtctgtaca acatcttgag tcccttttta cctctattac caattttctt ttgtctttgg 960
 gtatacatt 969

<210> 69
 <211> 323
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Artificially
 synthesized sequence

<400> 69
 Met Gly Thr Asn Leu Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp
 1 5 10 15
 His Gln Leu Asp Pro Ala Phe Gly Ala Asn Ser Asn Asn Pro Asp Trp
 20 25 30
 Gly Gly Arg Met Asn Ser Asp Ser Glu Cys Pro Leu Ser His Asp Gly
 35 40 45
 Tyr Cys Leu His Asp Gly Val Cys Met Tyr Ile Glu Ala Leu Asp Lys

Sequence Listing.txt

50 55 60
 Tyr Ala Cys Asn Cys Val Val Gly Tyr Ile Gly Glu Arg Cys Gln Tyr
 65 70 75 80
 Arg Asp Leu Lys Trp Trp Glu Leu Arg Lys Ala Ala Ala Pro Ala Pro
 85 90 95
 Asn Met Glu Asn Thr Thr Ser Gly Phe Leu Gly Pro Leu Leu Val Leu
 100 105 110
 Gln Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser
 115 120 125
 Leu Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Ala Pro Thr
 130 135 140
 Cys Pro Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn His Ser Pro Thr
 145 150 155 160
 Ser Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg Arg
 165 170 175
 Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu
 180 185 190
 Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu Leu Pro
 195 200 205
 Gly Thr Ser Thr Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr Ile Pro
 210 215 220
 Ala Arg Gly Thr Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro Ser
 225 230 235 240
 Asp Arg Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe Ala
 245 250 255
 Arg Phe Leu Trp Glu Trp Ala Ser Val Arg Phe Ser Trp Leu Ser Leu
 260 265 270
 Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp
 275 280 285
 Leu Ser Val Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr Asn
 290 295 300
 Ile Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu Trp
 305 310 315 320
 Val Tyr Ile

<210> 70

<211> 828

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

Sequence Listing.txt

<400> 70

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atgggggacga atcttttctgt tcccaatcct ctgggattct ttcccgatca ccagttggac 60
cctgcgttcg gagccaactc aaacaatcca gattggggcg gccgctggag ccacccgcag 120
ttcgaaaaag cggccgcccc tgcaccgaac atggagaaca caacatcagg attcctagga 180
cccctgctcg tgttacaggc ggggtttttc ttgttgacaa gaatcctcac aataccacag 240
agtctagact cgtgggtggac ttctctcaat ttcttagggg gagcaccac gtgtcctggc 300
caaaattcgc agtccccaac ctccaatcac tcaccaacct cttgtcctcc aatttgcct 360
ggctatcgct ggatgtgtct gcggcgtttt atcatattcc tcttcattcc gctgctatgc 420
ctcatcttct tgttggttct tctggactac caaggtatgt tgcccgtttg tcctctactt 480
ccaggaacat caaccaccag cacggggcca tgcaagacct gcacgattcc tgctcaagga 540
acctctatgt ttccctcttg ttgctgtaca aaaccttcgg acggaactg cacttgatt 600
cccatcccat catcctgggc tttcgcaaga ttcttatggg agtgggcctc agtccgtttc 660
tcctggctca gtttactagt gccatttgtt cagtgggttc tagggctttc cccactgtt 720
tggctttcag ttatatggat gatgtggtat tgggggcca gtctgtacaa catcttgagt 780
ccctttttac ctctattacc aattttcttt tgtctttggg tatacatt 828
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<210> 71

<211> 276

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 71

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Met Gly Thr Asn Leu Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp
 1      5      10      15
His Gln Leu Asp Pro Ala Phe Gly Ala Asn Ser Asn Asn Pro Asp Trp
      20      25      30
Gly Gly Arg Trp Ser His Pro Gln Phe Glu Lys Ala Ala Ala Pro Ala
      35      40      45
Pro Asn Met Glu Asn Thr Thr Ser Gly Phe Leu Gly Pro Leu Leu Val
      50      55      60
Leu Gln Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln
      65      70      75      80
Ser Leu Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Ala Pro
      85      90      95
Thr Cys Pro Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn His Ser Pro
      100      105      110
Thr Ser Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg
      115      120      125
Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu
      130      135      140
Leu Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu Leu
      145      150      155      160
Pro Gly Thr Ser Thr Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr Ile
      165      170      175
Pro Ala Gln Gly Thr Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro
      180      185      190
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Sequence Listing.txt

Ser Asp Gly Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe
 195 200 205

Ala Arg Phe Leu Trp Glu Trp Ala Ser Val Arg Phe Ser Trp Leu Ser
 210 215 220

Leu Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val
 225 230 235 240

Trp Leu Ser Val Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr
 245 250 255

Asn Ile Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu
 260 265 270

Trp Val Tyr Ile
 275

<210> 72
 <211> 828
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Artificially
 synthesized sequence

<400> 72
 atgggggacga atcttttctgt tcccaatcct ctgggattct ttcccgatca ccagttggac 60
 cctgcgttcg gagccaactc aaacaatcca gattggggcg gccgctggag ccaccgcag 120
 ttcgaaaaag cggccgcccc tgcaccgaac atggagaaca caacatcagg attcctagga 180
 cccctgctcg tgttacaggc ggggtttttc ttgttgacaa gaatcctcac aataccacag 240
 agtctagact cgtggtggac ttctctcaat ttctagggg gagcaccac gtgtcctggc 300
 caaaattcgc agtccccaac ctccaatcac tcaccaacct ctgtcctcc aatttgcct 360
 ggctatcgct ggatgtgtct gcggcgtttt atcatattcc tcttcacct gctgctatgc 420
 ctcatcttct tgttggttct tctggactac caaggtatgt tgcccgtttg tctctactt 480
 ccaggaacat caaccaccag cacggggcca tgcaagacct gcacgattcc tgctcgagga 540
 acctctatgt ttccctcttg ttgctgtaca aaaccttcgg acggaaactg cacttgatt 600
 cccatcccat catcctgggc ttctgcaaga ttctatggg agtgggcctc agtccgtttc 660
 tcctggctca gtttactagt gccatttgtt cagtggttcg tagggctttc cccactgtt 720
 tggctttcag ttatatggat gatgtggtat tgggggcaa gtctgtacaa catcttgagt 780
 ccctttttac ctctattacc aattttcttt tgtctttggg tatacatt 828

<210> 73
 <211> 276
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Artificially
 synthesized sequence

<400> 73
 Met Gly Thr Asn Leu Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp
 1 5 10 15

His Gln Leu Asp Pro Ala Phe Gly Ala Asn Ser Asn Asn Pro Asp Trp
 20 25 30

Gly Gly Arg Trp Ser His Pro Gln Phe Glu Lys Ala Ala Ala Pro Ala
 35 40 45

Sequence Listing.txt

Pro Asn Met Glu Asn Thr Thr Ser Gly Phe Leu Gly Pro Leu Leu Val
50 55 60
Leu Gln Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln
65 70 75 80
Ser Leu Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Ala Pro
85 90 95
Thr Cys Pro Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn His Ser Pro
100 105 110
Thr Ser Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg
115 120 125
Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu
130 135 140
Leu Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu Leu
145 150 155 160
Pro Gly Thr Ser Thr Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr Ile
165 170 175
Pro Ala Arg Gly Thr Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro
180 185 190
Ser Asp Gly Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe
195 200 205
Ala Arg Phe Leu Trp Glu Trp Ala Ser Val Arg Phe Ser Trp Leu Ser
210 215 220
Leu Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val
225 230 235 240
Trp Leu Ser Val Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr
245 250 255
Asn Ile Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu
260 265 270
Trp Val Tyr Ile
275

<210> 74

<211> 828

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
synthesized sequence

<400> 74

```
atggggacga atctttctgt tcccaatcct ctgggattct ttcccgatca ccagttggac 60
cctgcgttcg gagccaactc aaacaatcca gattggggcg gccgctggag ccacccgcag 120
ttcgaaaaag cggccgcccc tgcaccgaac atggagaaca caacatcagg attcctagga 180
cccctgctcg tgttacaggc ggggtttttc ttgttgacaa gaatcctcac aataccacag 240
agtctagact cgtggtggac ttctctcaat tttctagggg gagcaccac gtgtcctggc 300
caaaattcgc agtccccaac ctccaatcac tcaccaacct cttgtcctcc aatttgcct 360
```

Sequence Listing.txt

```

ggctatcgct ggatgtgtct gcggcgtttt atcatattcc tcttcacccct gctgctatgc 420
ctcatcttct tgttggttct tctggactac caaggatgtg tgcccgtttg tcctctactt 480
ccaggaacat caaccaccag cacggggcca tgcaagacct gcacgattcc tgctcaagga 540
acctctatgt ttccctcttg ttgctgtaca aaaccttcgg acagaaactg cacttgattt 600
cccatcccat catcctgggc tticgcaaga ttctatggg agtgggcctc agtccgtttc 660
tcctggctca gtttactagt gccatttgtt cagtgggtcg tagggctttc cccactgtt 720
tggctttcag ttatatggat gatgtggtat tgggggcaa gtctgtacaa catcttgagt 780
ccctttttac ctctattacc aattttcttt tgcctttggg tatacatt 828

```

<210> 75

<211> 276

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 75

```

Met Gly Thr Asn Leu Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp
 1          5          10          15
His Gln Leu Asp Pro Ala Phe Gly Ala Asn Ser Asn Asn Pro Asp Trp
          20          25          30
Gly Gly Arg Trp Ser His Pro Gln Phe Glu Lys Ala Ala Ala Pro Ala
          35          40          45
Pro Asn Met Glu Asn Thr Thr Ser Gly Phe Leu Gly Pro Leu Leu Val
          50          55          60
Leu Gln Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln
          65          70          75          80
Ser Leu Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Ala Pro
          85          90          95
Thr Cys Pro Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn His Ser Pro
          100          105          110
Thr Ser Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg
          115          120          125
Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu
          130          135          140
Leu Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu Leu
          145          150          155          160
Pro Gly Thr Ser Thr Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr Ile
          165          170          175
Pro Ala Gln Gly Thr Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro
          180          185          190
Ser Asp Arg Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe
          195          200          205
Ala Arg Phe Leu Trp Glu Trp Ala Ser Val Arg Phe Ser Trp Leu Ser
          210          215          220
Leu Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val

```


sequence string: 225 230 235 240

sequence string: 225 230 235 240

Trp Leu Ser Val Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr
245 250 255

Asn Ile Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu
260 : 265 270

Trp Val Tyr Ile
275

<210> 76
<211> 828
<212> DNA
<213> Artificial Sequence

```
<220> .
<223> Description of Artificial Sequence:Artificially
        synthesized sequence
```

<400> 76						
atgggggacga	atcttttctgt	tcccaatcct	ctgggattct	ttcccgatca	ccagttggac	60
cctgcgttctg	gagccaactc	aaacaatcca	gattggggcg	gccgctggag	ccaccgcgag	120
ttcgaaaaag	cggcgcgcc	tgaccggaac	atggagaaca	caacatcagg	attctctagga	180
ccctgtctcg	tgttacaggc	gggttttttc	ttgttgacaa	gaatcctcac	aataccacag	240
agtctagact	cggtgtggac	tgtctcfaat	tttctagggg	gagcaccac	gtgtcctggc	300
caaaattcgc	agtccccaac	ctccaatcac	tcaccaacct	cttgtcctcc	aatttgtcct	360
ggctatcgct	ggatgtgtct	gcgggtgttt	atcatattcc	tcttcatcct	gctgctatgc	420
ctcatcttct	tgttggttct	tctggactac	caaggtatgt	tgcccgtttg	tgctctactt	480
ccaggaacat	caaccaccag	cacggggcca	tgcaagacct	gcacgatttc	tgctcgagga	540
acctctatgt	ttccctcttg	ttgctgtaca	aaaccttcgg	acagaaactg	cacttgattt	600
cccateccat	catcctgggc	tttcgcaaga	ttcctatggg	agtgggcctc	agtccgtttc	660
tcctgggtcta	gtttactagt	gccatttgtt	cagtggtttc	tagggctttc	ccccactggt	720
tggctttcag	ttatatggat	gattgtggat	tgggggccaa	gtctgtacaa	catcttgagt	780
cccttttttac	ctctattacc	aattttcttt	tgtctttggg	tatacatt		828

```
<210> 77
<211> 276
<212> PRT
<213> Artificial Sequence
```

```
<220>
<223> Description of Artificial Sequence:Artificially
synthesized sequence
```

```

<400> 77
Met Gly Thr Asn Leu Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp
  1          5          10          15
His Gln Leu Asp Pro Ala Phe Gly Ala Asn Ser Asn Asn Pro Asp Trp
          20          25          30
Gly Gly Arg Trp Ser His Pro Gln Phe Glu Lys Ala Ala Ala Pro Ala
          35          40          45
Pro Asn Met Glu Asn Thr Thr Ser Gly Phe Leu Gly Pro Leu Leu Val
          50          55          60
Leu Gln Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln
          65          70          75          80

```

Sequence Listing.txt

Ser Leu Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Ala Pro
85 90 95
Thr Cys Pro Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn His Ser Pro
100 105 110
Thr Ser Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg
115 120 125
Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu
130 135 140
Leu Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu Leu
145 150 155 160
Pro Gly Thr Ser Thr Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr Ile
165 170 175
Pro Ala Arg Gly Thr Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro
180 185 190
Ser Asp Arg Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe
195 200 205
Ala Arg Phe Leu Trp Glu Trp Ala Ser Val Arg Phe Ser Trp Leu Ser
210 215 220
Leu Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val
225 230 235 240
Trp Leu Ser Val Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr
245 250 255
Asn Ile Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu
260 265 270
Trp Val Tyr Ile
275

<210> 78

<211> 1221

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 78

atggggacga	atcttttctgt	tcccaatcct	ctgggattct	ttcccgatca	ccagttggac	60
cctgcgttcg	gagccaactc	aaacaatcca	gattgggact	tcaaccccaa	caaggatcaa	120
tggccagagg	caaatcaggt	aggagcgggc	ggccgcgcgc	aacacgatga	agccgtagac	180
aacaaattca	acaaagaaca	acaaaacgcg	ttctatgaga	tcttacattt	acctaactta	240
aacgaagaac	aacgaaacgc	cttcattccaa	agttttaaag	atgacccaag	ccaaagcgct	300
aaccttttag	cagaagctaa	aaagctaaat	gatgtctcagg	cgccgaaagt	agacaacaaa	360
ttcaacaaag	aacaacaaaa	cgcgttctat	gagatcttac	atttacctaa	cttaaacgaa	420
gaacaacgaa	acgccttcat	ccaaagttaa	aaagatgacc	caagccaaag	cgctaacctt	480
ttagcagaag	ctaaaaagct	aaatgatgct	caggcgccga	aagcggccgc	ccctgcaccg	540
aacatggaga	acacaacatc	aggattccta	ggacccctgc	tcgtgttaca	ggcgggggtt	600
ttcttggtga	caagaatcct	cacaatatca	cagagtctag	actcgtggtg	gacttctctc	660
aattttctag	ggggagcacc	cacgtgtcct	ggccaaaatt	cgcagtcccc	aacctccaat	720
cactcaccaa	cctcttgtcc	tccaatttgt	cctggctatc	gctggatgtg	tctgcggcgt	780

Sequence Listing.txt

```

tttatcatat tcctcttcat cctgctgcta tgcctcatct tcttggtggt tcttctggac 840
taccaaggta tgttgcccggt ttgtcctcta cttccaggaa catcaaccac cagcacgggg 900
ccatgcaaga cctgcacgat tcctgctcaa ggaacctcta tgttccctc ttgttgctgt 960
acaaaacctt cggacggaaa ctgcacttgt attcccatcc catcatcctg ggctttcgca 1020
agattcctat gggagtgggc ctgagtcctg ttctcctggc tcagtttact agtgccattt 1080
gttcagtggg tcgtaggggt ttccccact gtttggcttt cagttatatg gatgatgtgg 1140
tattgggggc caagtctgta caacatcttg agtccctttt tacctctatt accaattttc 1200
ttttgtcttt gggatatacat t 1221

```

<210> 79

<211> 407

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 79

Met Gly Thr Asn Leu Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp
1 5 10 15

His Gln Leu Asp Pro Ala Phe Gly Ala Asn Ser Asn Asn Pro Asp Trp
20 25 30

Asp Phe Asn Pro Asn Lys Asp Gln Trp Pro Glu Ala Asn Gln Val Gly
35 40 45

Ala Gly Gly Arg Ala Gln His Asp Glu Ala Val Asp Asn Lys Phe Asn
50 55 60

Lys Glu Gln Gln Asn Ala Phe Tyr Glu Ile Leu His Leu Pro Asn Leu
65 70 75 80

Asn Glu Glu Gln Arg Asn Ala Phe Ile Gln Ser Leu Lys Asp Asp Pro
85 90 95

Ser Gln Ser Ala Asn Leu Leu Ala Glu Ala Lys Lys Leu Asn Asp Ala
100 105 110

Gln Ala Pro Lys Val Asp Asn Lys Phe Asn Lys Glu Gln Gln Asn Ala
115 120 125

Phe Tyr Glu Ile Leu His Leu Pro Asn Leu Asn Glu Glu Gln Arg Asn
130 135 140

Ala Phe Ile Gln Ser Leu Lys Asp Asp Pro Ser Gln Ser Ala Asn Leu
145 150 155 160

Leu Ala Glu Ala Lys Lys Leu Asn Asp Ala Gln Ala Pro Lys Ala Ala
165 170 175

Ala Pro Ala Pro Asn Met Glu Asn Thr Thr Ser Gly Phe Leu Gly Pro
180 185 190

Leu Leu Val Leu Gln Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr
195 200 205

Ile Pro Gln Ser Leu Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly
210 215 220

Gly Ala Pro Thr Cys Pro Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn

Sequence Listing.txt

225 230 235 240
 His Ser Pro Thr Ser Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp Met
 245 250 255
 Cys Leu Arg Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu
 260 265 270
 Ile Phe Leu Leu Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys
 275 280 285
 Pro Leu Leu Pro Gly Thr Ser Thr Thr Ser Thr Gly Pro Cys Lys Thr
 290 295 300
 Cys Thr Ile Pro Ala Gln Gly Thr Ser Met Phe Pro Ser Cys Cys Cys
 305 310 315 320
 Thr Lys Pro Ser Asp Gly Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser
 325 330 335
 Trp Ala Phe Ala Arg Phe Leu Trp Glu Trp Ala Ser Val Arg Phe Ser
 340 345 350
 Trp Leu Ser Leu Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser
 355 360 365
 Pro Thr Val Trp Leu Ser Val Ile Trp Met Met Trp Tyr Trp Gly Pro
 370 375 380
 Ser Leu Tyr Asn Ile Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe
 385 390 395 400
 Phe Cys Leu Trp Val Tyr Ile
 405

<210> 80

<211> 1221

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 80

```

atggggacga atctttctgt tccaatcct ctgggattct ttcccgatca ccagttggac 60
cctgcgttcg gagccaactc aaacaatcca gattgggact tcaaccccaa caaggatcaa 120
tgccagagg caaatcaggt aggagcgggc ggccgcgcgc aacacgatga agccgtagac 180
aacaaattca acaaagaaca acaaaacgcg ttctatgaga tcttacattt acctaactta 240
aacgaagaac aacgaaacgc cttcatccaa agttttaaag atgaccaag ccaaagcgt 300
aaccttttag cagaagctaa aaagctaaat gatgtcagg cgccgaaagt agacaacaaa 360
ttcaacaaag aacaacaaaa cgcgttctat gagatcttac atttacctaa cttaaacgaa 420
gaacaacgaa acgccttcat ccaaagttaa aaagatgacc caagccaaag cgctaacctt 480
ttagcagaag ctaaaaagct aaatgatgct caggcgccga aagcggccgc ccctgcaccg 540
aacatggaga acacaacatc aggattccta ggaccctgc tcgtgttaca ggcggggttt 600
ttcttggtga caagaatcct cacaatacca cagagtctag actcgtggtg gacttctctc 660
aattttctag ggggagcacc cacgtgtcct ggccaaaatt cgcagtcccc aacctccaat 720
cactaccaa cctctgttcc tccaatttgt cctggctatc gctggatgtg tctgcggcgt 780
tttatcatat tcctcttcat cctgctgcta tgcctcatct tcttgttggt tcttctggac 840
taccaaggta tgttgccggt ttgtcctcta ctccaggaa catcaaccac cagcacgggg 900
ccatgcaaga cctgcacgat tctgtctcga ggaacctcta tgtttccctc ttgttgctgt 960
acaaaacctt cggacggaaa ctgcacttgt attcccatcc catcatcctg ggctttcgca 1020

```

Sequence Listing.txt

```

agattcctat gggagtgggc ctcagtcctgt ttctcctggc tcagtttact agtgccattt 1080
gttcagtggt tcgtagggct ttccccact gtttggcttt cagttatatg gatgatgtgg 1140
tattgggggc caagtctgta caacatcttg agtccctttt tacctctatt accaattttc 1200
ttttgtcttt gggatacat t 1221

```

<210> 81
 <211> 407
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Artificially
 synthesized sequence

<400> 81
 Met Gly Thr Asn Leu Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp
 1 5 10 15
 His Gln Leu Asp Pro Ala Phe Gly Ala Asn Ser Asn Asn Pro Asp Trp
 20 25 30
 Asp Phe Asn Pro Asn Lys Asp Gln Trp Pro Glu Ala Asn Gln Val Gly
 35 40 45
 Ala Gly Gly Arg Ala Gln His Asp Glu Ala Val Asp Asn Lys Phe Asn
 50 55 60
 Lys Glu Gln Gln Asn Ala Phe Tyr Glu Ile Leu His Leu Pro Asn Leu
 65 70 75 80
 Asn Glu Glu Gln Arg Asn Ala Phe Ile Gln Ser Leu Lys Asp Asp Pro
 85 90 95
 Ser Gln Ser Ala Asn Leu Leu Ala Glu Ala Lys Lys Leu Asn Asp Ala
 100 105 110
 Gln Ala Pro Lys Val Asp Asn Lys Phe Asn Lys Glu Gln Gln Asn Ala
 115 120 125
 Phe Tyr Glu Ile Leu His Leu Pro Asn Leu Asn Glu Glu Gln Arg Asn
 130 135 140
 Ala Phe Ile Gln Ser Leu Lys Asp Asp Pro Ser Gln Ser Ala Asn Leu
 145 150 155 160
 Leu Ala Glu Ala Lys Lys Leu Asn Asp Ala Gln Ala Pro Lys Ala Ala
 165 170 175
 Ala Pro Ala Pro Asn Met Glu Asn Thr Thr Ser Gly Phe Leu Gly Pro
 180 185 190
 Leu Leu Val Leu Gln Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr
 195 200 205
 Ile Pro Gln Ser Leu Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly
 210 215 220
 Gly Ala Pro Thr Cys Pro Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn
 225 230 235 240
 His Ser Pro Thr Ser Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp Met
 245 250 255

Sequence Listing.txt

Cys Leu Arg Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu
260 265 270
Ile Phe Leu Leu Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys
275 280 285
Pro Leu Leu Pro Gly Thr Ser Thr Thr Ser Thr Gly Pro Cys Lys Thr
290 295 300
Cys Thr Ile Pro Ala Arg Gly Thr Ser Met Phe Pro Ser Cys Cys Cys
305 310 315 320
Thr Lys Pro Ser Asp Gly Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser
325 330 335
Trp Ala Phe Ala Arg Phe Leu Trp Glu Trp Ala Ser Val Arg Phe Ser
340 345 350
Trp Leu Ser Leu Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser
355 360 365
Pro Thr Val Trp Leu Ser Val Ile Trp Met Met Trp Tyr Trp Gly Pro
370 375 380
Ser Leu Tyr Asn Ile Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe
385 390 395 400
Phe Cys Leu Trp Val Tyr Ile
405

<210> 82

<211> 1221

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
synthesized sequence

<400> 82

atggggacga	atctttctgt	tccaatcct	ctgggattct	ttcccgatca	ccagttggac	60
cctgcttctg	gagccaactc	aaacaatcca	gattgggact	tcaaccccaa	caaggatcaa	120
tggccagagg	caaatcaggt	aggagcgggc	ggccgcgcgc	aacacgatga	agccgtagac	180
aacaaattca	acaaagaaca	acaaaacgcg	ttctatgaga	tcttacattt	acctaactta	240
aacgaagaac	aacgaaacgc	cttcatccaa	agtttaaaaag	atgacccaag	ccaaagcgct	300
aaccttttag	cagaagctaa	aaagctaaat	gatgtcagg	cgccgaaagt	agacaacaaa	360
ttcaacaaag	aacaacaaaa	cgcgttctat	gagatcttac	atttacctaa	cttaaacgaa	420
gaacaacgaa	acgccttcat	ccaaagttta	aaagatgacc	caagccaaag	cgtaaacctt	480
ttagcagaag	ctaaaaagct	aaatgatgct	caggcgccga	aagcggccgc	ccctgcaccg	540
aacatggaga	acacaacatc	aggattccta	ggacccctgc	tcgtgttaca	ggcggggttt	600
ttcttggtga	caagaatcct	caacaatacca	cagagtctag	actcgtggtg	gacttctctc	660
aatttttctag	ggggagcacc	cacgtgtcct	ggccaaaatt	cgcagtcccc	aacctccaat	720
cactcaccaa	cctcttgtcc	tcgaatttgt	cctggctatc	gctggatgtg	tctgcggcgt	780
tttatcatat	tctcttctat	cctgctgcta	tgcctcatct	tcttggttgt	tcttctggac	840
taccaaggta	tggtgcccgt	ttgtcctcta	cttcaggaa	catcaaccac	cagcacgggg	900
ccatgcaaga	cctgcacgat	tcctgctcaa	ggaacctcta	tgtttccttc	ttgttgctgt	960
acaaaacctt	cggacagaaa	ctgcacttgt	attcccatcc	catcatcctg	ggctttcgca	1020
agattcctat	gggagtgggc	ctcagtcctg	ttctcctggc	tcagtttact	agtgccattt	1080
gttcagtggg	tcgtagggct	ttccccctt	gtttggcttt	cagttatatg	gatgatgtgg	1140
tattgggggc	caagtctgta	caacatcttg	agtccctttt	tacctctatt	accaattttc	1200
ttttgtcttt	gggtatacat	t				1221

Sequence Listing.txt

<210> 83
 <211> 407
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Artificially
 synthesized sequence

<400> 83
 Met Gly Thr Asn Leu Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp
 1 5 10 15
 His Gln Leu Asp Pro Ala Phe Gly Ala Asn Ser Asn Asn Pro Asp Trp
 20 25 30
 Asp Phe Asn Pro Asn Lys Asp Gln Trp Pro Glu Ala Asn Gln Val Gly
 35 40 45
 Ala Gly Gly Arg Ala Gln His Asp Glu Ala Val Asp Asn Lys Phe Asn
 50 55 60
 Lys Glu Gln Gln Asn Ala Phe Tyr Glu Ile Leu His Leu Pro Asn Leu
 65 70 75 80
 Asn Glu Glu Gln Arg Asn Ala Phe Ile Gln Ser Leu Lys Asp Asp Pro
 85 90 95
 Ser Gln Ser Ala Asn Leu Leu Ala Glu Ala Lys Lys Leu Asn Asp Ala
 100 105 110
 Gln Ala Pro Lys Val Asp Asn Lys Phe Asn Lys Glu Gln Gln Asn Ala
 115 120 125
 Phe Tyr Glu Ile Leu His Leu Pro Asn Leu Asn Glu Glu Gln Arg Asn
 130 135 140
 Ala Phe Ile Gln Ser Leu Lys Asp Asp Pro Ser Gln Ser Ala Asn Leu
 145 150 155 160
 Leu Ala Glu Ala Lys Lys Leu Asn Asp Ala Gln Ala Pro Lys Ala Ala
 165 170 175
 Ala Pro Ala Pro Asn Met Glu Asn Thr Thr Ser Gly Phe Leu Gly Pro
 180 185 190
 Leu Leu Val Leu Gln Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr
 195 200 205
 Ile Pro Gln Ser Leu Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly
 210 215 220
 Gly Ala Pro Thr Cys Pro Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn
 225 230 235 240
 His Ser Pro Thr Ser Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp Met
 245 250 255
 Cys Leu Arg Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu
 260 265 270

Sequence Listing.txt

Ile Phe Leu Leu Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys
 275 280 285

Pro Leu Leu Pro Gly Thr Ser Thr Thr Ser Thr Gly Pro Cys Lys Thr
 290 295 300

Cys Thr Ile Pro Ala Gln Gly Thr Ser Met Phe Pro Ser Cys Cys Cys
 305 310 315 320

Thr Lys Pro Ser Asp Arg Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser
 325 330 335

Trp Ala Phe Ala Arg Phe Leu Trp Glu Trp Ala Ser Val Arg Phe Ser
 340 345 350

Trp Leu Ser Leu Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser
 355 360 365

Pro Thr Val Trp Leu Ser Val Ile Trp Met Met Trp Tyr Trp Gly Pro
 370 375 380

Ser Leu Tyr Asn Ile Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe
 385 390 395 400

Phe Cys Leu Trp Val Tyr Ile
 405

<210> 84

<211> 1221

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 84

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atggggacga atctttctgt tccaatcct ctgggattct ttcccgatca ccagttggac 60
cctgcgttcg gagccaactc aaacaatcca gattgggact tcaaccccaa caaggatcaa 120
tggccagagg caaatcaggt aggagcgggc ggccgcgcgc aacacgatga agccgtagac 180
aacaattca acaagaaca acaaaacgcg ttctatgaga tcttacattt acctaactta 240
aacgaagaac aacgaaacgc cttcatccaa agtttaaaag atgacccaag ccaaagcgct 300
aaccttttag cagaagctaa aaagctaaat gatgctcagg cgccgaaagt agacaacaaa 360
ttcaacaaag aacaacaaaa cgcgttctat gagatcttac atttacctaa cttaaacgaa 420
gaacaacgaa acgccttcat ccaaagttta aaagatgacc caagccaaag cgctaacctt 480
ttagcagaag ctaaaaagct aaatgatgct caggcgccga aagcggccgc ccctgcaccg 540
aacatggaga acacaacatc aggattccta ggacccctgc tcgtgttaca ggcgggggtt 600
ttcttggtga caagaatcct cacaatacca cacagtctag actcgtggtg gacttctctc 660
aattttctag ggggagcacc cacgtgtcct ggccaaaatt cgcagtcctc aacctccaat 720
cactcaccaa cctctgtgcc tccaatttgt cctggctatc gctggatgtg tctgcggcgt 780
tttatcatat tctcttcat cctgctgcta tgccctcatc tcttggttgt tcttctggac 840
taccaaggta tgttgcccgt ttgtcctcta cttccaggaa catcaaccac cagcacgggg 900
ccatgcaaga cctgcacgat tcctgctcga ggaacctcta tgtttccctc ttgttgctgt 960
acaaaacctt cggacagaaa ctgcacttgt attcccatcc catcatcctg ggctttcgca 1020
agattcctat gggagtgggc ctcagtcctg ttctcctggc tcagtttact agtgccattt 1080
gttcagtggg tcgtagggct ttccccact gtttggtttt cagtttatat gatgatgtgg 1140
tattgggggc caagtctgta caacatcttg agtccctttt tacctctatt accaattttc 1200
ttttgtcttt ggggtatacat t

```

<210> 85

<211> 407

Sequence Listing.txt

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
synthesized sequence

<400> 85

Met Gly Thr Asn Leu Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp
1 5 10 15

His Gln Leu Asp Pro Ala Phe Gly Ala Asn Ser Asn Asn Pro Asp Trp
20 25 30

Asp Phe Asn Pro Asn Lys Asp Gln Trp Pro Glu Ala Asn Gln Val Gly
35 40 45

Ala Gly Gly Arg Ala Gln His Asp Glu Ala Val Asp Asn Lys Phe Asn
50 55 60

Lys Glu Gln Gln Asn Ala Phe Tyr Glu Ile Leu His Leu Pro Asn Leu
65 70 75 80

Asn Glu Glu Gln Arg Asn Ala Phe Ile Gln Ser Leu Lys Asp Asp Pro
85 90 95

Ser Gln Ser Ala Asn Leu Leu Ala Glu Ala Lys Lys Leu Asn Asp Ala
100 105 110

Gln Ala Pro Lys Val Asp Asn Lys Phe Asn Lys Glu Gln Gln Asn Ala
115 120 125

Phe Tyr Glu Ile Leu His Leu Pro Asn Leu Asn Glu Glu Gln Arg Asn
130 135 140

Ala Phe Ile Gln Ser Leu Lys Asp Asp Pro Ser Gln Ser Ala Asn Leu
145 150 155 160

Leu Ala Glu Ala Lys Lys Leu Asn Asp Ala Gln Ala Pro Lys Ala Ala
165 170 175

Ala Pro Ala Pro Asn Met Glu Asn Thr Thr Ser Gly Phe Leu Gly Pro
180 185 190

Leu Leu Val Leu Gln Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr
195 200 205

Ile Pro Gln Ser Leu Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly
210 215 220

Gly Ala Pro Thr Cys Pro Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn
225 230 235 240

His Ser Pro Thr Ser Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp Met
245 250 255

Cys Leu Arg Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu
260 265 270

Ile Phe Leu Leu Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys
275 280 285

Pro Leu Leu Pro Gly Thr Ser Thr Thr Ser Thr Gly Pro Cys Lys Thr

Sequence Listing.txt
300

290

295

Cys Thr Ile Pro Ala Arg Gly Thr Ser Met Phe Pro Ser Cys Cys Cys
305 310 315 320
Thr Lys Pro Ser Asp Arg Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser
325 330 335
Trp Ala Phe Ala Arg Phe Leu Trp Glu Trp Ala Ser Val Arg Phe Ser
340 345 350
Trp Leu Ser Leu Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser
355 360 365
Pro Thr Val Trp Leu Ser Val Ile Trp Met Met Trp Tyr Trp Gly Pro
370 375 380
Ser Leu Tyr Asn Ile Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe
385 390 395 400
Phe Cys Leu Trp Val Tyr Ile
405

<210> 86
<211> 1020
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Artificially
synthesized sequence

<400> 86
atgggggacga atcttttctgt tcccaatcct ctgggattct ttcccgatca ccagttggac 60
cctgctgttcg gagccaactc aaacaatcca gattgggact tcaaccccaa caaggatcaa 120
tgccagagg caaatcagggt aggagcgggc ggccgcatga actctgattc cgaatgcccg 180
ctgtctcatg acggttactg cctgcatgat ggcgatgca tgtacatcga agctctggac 240
aaatacgcgt gcaactgtgt tgtaggttac atcggcgaac gttgccagta tcgcgacctg 300
aaatggtggg aactgcgtaa ggcgccgcc cctgcaccga acatggagaa cacaacatca 360
ggattcctag gacccctgct cgtgttacag gcggggtttt tcttgttgac aagaatcctc 420
acaataccac agagtctaga ctctgtgttg acttctctca attttctagg gggagcacc 480
acgtgtcctg gccaaaattc gcagtcacca accccaatc actcaccaac ctcttgcct 540
ccaatttgc ctggctatcg ctggatgtgt ctgcggcggt ttatcatatt cctcttcac 600
ctgctgctat gcctcatctt ctgtgttggt cttctggact accaaggtat gttgcccgtt 660
tgtcctctac ttccaggaac atcaaccacc agcacggggc catgcaagac ctgcacgatt 720
cctgctcaag gaacctctat gtttccctct tgttgctgta caaaccttc ggacggaac 780
tgcaactgta ttcccatccc atcatcctgg gctttcgcaa gattcctatg ggagtgggc 840
tcagtcggtt tctcctggct cagtttacta gtgccatttg ttcagtgggt cgtagggctt 900
tccccactg tttggctttc agttatatgg atgatgtggt attgggggccc aagtctgtac 960
aacatcttga gtcccttttt acctctatta ccaattttct tttgtctttg ggtatacatt 1020

<210> 87
<211> 340
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Artificially
synthesized sequence

<400> 87

Sequence Listing.txt

Met Gly Thr Asn Leu Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp
 1 5 10 15
 His Gln Leu Asp Pro Ala Phe Gly Ala Asn Ser Asn Asn Pro Asp Trp
 20 25 30
 Asp Phe Asn Pro Asn Lys Asp Gln Trp Pro Glu Ala Asn Gln Val Gly
 35 40 45
 Ala Gly Gly Arg Met Asn Ser Asp Ser Glu Cys Pro Leu Ser His Asp
 50 55 60
 Gly Tyr Cys Leu His Asp Gly Val Cys Met Tyr Ile Glu Ala Leu Asp
 65 70 75 80
 Lys Tyr Ala Cys Asn Cys Val Val Gly Tyr Ile Gly Glu Arg Cys Gln
 85 90 95
 Tyr Arg Asp Leu Lys Trp Trp Glu Leu Arg Lys Ala Ala Ala Pro Ala
 100 105 110
 Pro Asn Met Glu Asn Thr Thr Ser Gly Phe Leu Gly Pro Leu Leu Val
 115 120 125
 Leu Gln Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln
 130 135 140
 Ser Leu Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Ala Pro
 145 150 155 160
 Thr Cys Pro Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn His Ser Pro
 165 170 175
 Thr Ser Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg
 180 185 190
 Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu
 195 200 205
 Leu Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu Leu
 210 215 220
 Pro Gly Thr Ser Thr Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr Ile
 225 230 235 240
 Pro Ala Gln Gly Thr Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro
 245 250 255
 Ser Asp Gly Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe
 260 265 270
 Ala Arg Phe Leu Trp Glu Trp Ala Ser Val Arg Phe Ser Trp Leu Ser
 275 280 285
 Leu Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val
 290 295 300
 Trp Leu Ser Val Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr
 305 310 315 320
 Asn Ile Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu
 325 330 335

Sequence Listing.txt

Trp Val Tyr Ile
340

<210> 88
<211> 1020
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Artificially
synthesized sequence

<400> 88
atggggacga atcttttctgt tcccaatcct ctgggattct ttcccgatca ccagttggac 60
cctgcgttcg gagccaactc aaacaatcca gattgggact tcaaccccaa caaggatcaa 120
tggccagagg caaatcaggt aggagcgggc ggccgcatga actctgattc cgaatgcccg 180
ctgtctcatg acggttactg cctgcatgat ggcgtatgca tgtacatcga agctctggac 240
aaatacgcat gcaactgtgt ttaggttac atcggcgaac gttgccagta tcgcgacctg 300
aaatgggtggg aactgcgtaa ggcggccgcc cctgcaccga acatggagaa cacaacatca 360
ggattcctag gacccctgct cgtgttacag gcggggtttt tcttggtgac aagaatcctc 420
acaataccac agagtctaga ctctgtgttg acttctctca attttctagg gggagcacc 480
acgtgtcctg gccaaaattc gcagtcacca acctccaatc actcaccaac ctcttgctc 540
ccaatttgct ctggctatcg ctggatgtgt ctgcggcggt ttatcatatt cctcttcac 600
ctgtgtctat gcctcatctt ctgtgttggt ctctctggact accaaggat gttgcccgtt 660
tgtcctctac ttccaggaac atcaaccacc agcacggggc catgcaagac ctgcacgatt 720
cctgctcgag gaacctctat gtttccctct tgttgctgta caaaccttc ggacggaac 780
tgcacttgta ttcccatccc atcatcctgg gctttcgcaa gattcctatg ggagtggg 840
tcagtccgtt tctcctggct cagtttacta gtgccatttg ttcagtgggt cgtagggctt 900
tccccactg tttggctttc agttatatgg atgatgtggg attggggggc aagtctgtac 960
aacatcttga gtcccttttt acctctatta ccaattttct tttgtctttg ggtatacatt 1020

<210> 89
<211> 340
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Artificially
synthesized sequence

<400> 89
Met Gly Thr Asn Leu Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp
1 5 10 15
His Gln Leu Asp Pro Ala Phe Gly Ala Asn Ser Asn Asn Pro Asp Trp
20 25 30
Asp Phe Asn Pro Asn Lys Asp Gln Trp Pro Glu Ala Asn Gln Val Gly
35 40 45
Ala Gly Gly Arg Met Asn Ser Asp Ser Glu Cys Pro Leu Ser His Asp
50 55 60
Gly Tyr Cys Leu His Asp Gly Val Cys Met Tyr Ile Glu Ala Leu Asp
65 70 75 80
Lys Tyr Ala Cys Asn Cys Val Val Gly Tyr Ile Gly Glu Arg Cys Gln
85 90 95
Tyr Arg Asp Leu Lys Trp Trp Glu Leu Arg Lys Ala Ala Ala Pro Ala
100 105 110

Sequence Listing.txt

Pro Asn Met Glu Asn Thr Thr Ser Gly Phe Leu Gly Pro Leu Leu Val
115 120
Leu Gln Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln
130 135 140
Ser Leu Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Ala Pro
145 150 155 160
Thr Cys Pro Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn His Ser Pro
165 170 175
Thr Ser Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg
180 185 190
Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu
195 200 205
Leu Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu Leu
210 215 220
Pro Gly Thr Ser Thr Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr Ile
225 230 235 240
Pro Ala Arg Gly Thr Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro
245 250 255
Ser Asp Gly Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe
260 265 270
Ala Arg Phe Leu Trp Glu Trp Ala Ser Val Arg Phe Ser Trp Leu Ser
275 280 285
Leu Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val
290 295 300
Trp Leu Ser Val Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr
305 310 315 320
Asn Ile Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu
325 330 335
Trp Val Tyr Ile
340

<210> 90

<211> 1020

<212> DNA

<213> Artificial Sequence

<220> :

<223> Description of Artificial Sequence:Artificially
synthesized sequence

<400> 90

atggggacga atctttctgt tccaatcct ctgggattct ttcccgatca ccagttggac 60
cctgcgttcg gagccaactc aaacaatcca gattgggact tcaaccccaa caaggatcaa 120
tgccagagg caaatcaggt aggagcgggc ggccgcatga actctgattc cgaatgcccg 180
ctgtctcatg acggttactg cctgcatgat ggcgtatgca tgtacatcga agctctggac 240
aaatacgcac gcaactgtgt ttaggttac atcggcgaac gttgccagta tcgcgacctg 300
aaatggtggg aactgcgtaa ggcggccgcc cctgcaccga acatggagaa cacaacatca 360

Sequence Listing.txt

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ggattcctag gacccctgct cgtgttacag gcgggggttt tcttggtgac aagaatcctc 420
acaataccac agagtctaga ctggtggtgg acttctctca attttctagg gggagcacc 480
acgtgtcctg gccaaaattc gcagtcacca acctccaatc actcaccaac ctcttgcct 540
ccaatttgtc ctggctatcg ctggatgtgt ctgcggcggt ttatcatatt cctcttcac 600
ctgctgctat gcctcatctt ctgtttggtt cttctggact accaaggat gttgcccgtt 660
tgtcctctac ttccaggaac atcaaccacc agcacggggc catgcaagac ctgcacgatt 720
cctgctcaag gaacctctat gtttccctct tgttgctgta caaaaccttc ggacagaaac 780
tgcacttgta ttcccatccc atcatcctgg gctttcgcaa gattcctatg ggagtgggcc 840
tcagtccgtt tctcctggct cagtttacta gtgccatttg ttcagtgggt cgtagggcct 900
tccccactg tttggctttc agttatatgg atgatgtggg attgggggcc aagtctgtac 960
aacatcttga gtcccttttt acctctatta ccaattttct tttgtctttg ggtatacatt 1020

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<210> 91

<211> 340

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 91

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Met Gly Thr Asn Leu Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp
 1          5          10          15
His Gln Leu Asp Pro Ala Phe Gly Ala Asn Ser Asn Asn Pro Asp Trp
          20          25          30
Asp Phe Asn Pro Asn Lys Asp Gln Trp Pro Glu Ala Asn Gln Val Gly
          35          40          45
Ala Gly Gly Arg Met Asn Ser Asp Ser Glu Cys Pro Leu Ser His Asp
          50          55          60
Gly Tyr Cys Leu His Asp Gly Val Cys Met Tyr Ile Glu Ala Leu Asp
          65          70          75          80
Lys Tyr Ala Cys Asn Cys Val Val Gly Tyr Ile Gly Glu Arg Cys Gln
          85          90          95
Tyr Arg Asp Leu Lys Trp Trp Glu Leu Arg Lys Ala Ala Ala Pro Ala
          100          105          110
Pro Asn Met Glu Asn Thr Thr Ser Gly Phe Leu Gly Pro Leu Leu Val
          115          120          125
Leu Gln Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln
          130          135          140
Ser Leu Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Ala Pro
          145          150          155          160
Thr Cys Pro Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn His Ser Pro
          165          170          175
Thr Ser Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg
          180          185          190
Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu
          195          200          205
Leu Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu Leu

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Sequence Listing.txt

210

215

220

Pro Gly Thr Ser Thr Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr Ile
225 230 235 240
Pro Ala Gln Gly Thr Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro
245 250 255
Ser Asp Arg Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe
260 265 270
Ala Arg Phe Leu Trp Glu Trp Ala Ser Val Arg Phe Ser Trp Leu Ser
275 280 285
Leu Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val
290 295 300
Trp Leu Ser Val Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr
305 310 315 320
Asn Ile Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu
325 330 335
Trp Val Tyr Ile
340

<210> 92

<211> 1020

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
synthesized sequence

<400> 92

atggggacga	atctttctgt	tccaatcct	ctgggattct	ttcccgatca	ccagttggac	60
cctgcgttcg	gagccaactc	aaacaatcca	gattgggact	tcaaccccaa	caaggatcaa	120
tggccagagg	caaatcaggt	aggagcgggc	ggccgcatga	actctgattc	cgaatgcccg	180
ctgtctcatg	acggttactg	cctgcatgat	ggcgtatgca	tgtacatcga	agctctggac	240
aaatacgcac	gcaactgtgt	tgtaggttac	atcggcgaac	gttgccagta	tcgcgacctg	300
aaatgggtgg	aactgcgtaa	ggcggccgcc	cctgcaccga	acatggagaa	cacaacatca	360
ggattcctag	gacccctgct	cgtgttacag	gcggggtttt	tcttgttgac	aagaatcctc	420
acaataccac	agagtctaga	ctcgtggtgg	acttctctca	atcttctagg	gggagcacc	480
acgtgtcctg	gccaaaattc	gcagtcacca	acctccaatc	actcaccaac	ctcttgtcct	540
ccaatgtgtc	ctggctatcg	ctggatgtgt	ctgcggcggt	ttatcatatt	cctcttcac	600
ctgctgctat	gcctcatctt	ctgtgtgggt	cttctggact	accaaggtat	gttgcccgtt	660
tgtcctctac	ttccaggaac	atcaaccacc	agcacggggc	catgcaagac	ctgcacgatt	720
cctgctcgag	gaacctctat	gtttccctct	tggtgctgta	caaaaccttc	ggacagaaac	780
tgcacttgta	ttcccatccc	atcatcctgg	gctttcgcaa	gattcctatg	ggagtggg	840
tcagtccgtt	tctcctggct	cagtttacta	gtgccatttg	ttcagtgggt	cgtagggcct	900
tccccactg	tttggttttc	agttatatgg	atgatgtggg	attggggg	aagtctgtac	960
aacatcttga	gtcccttttt	acctctatta	ccaattttct	tttgctttg	ggtatacatt	1020

<210> 93

<211> 340

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially

Sequence Listing.txt

synthesized sequence

<400> 93

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Met Gly Thr Asn Leu Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp
 1      5      10
His Gln Leu Asp Pro Ala Phe Gly Ala Asn Ser Asn Asn Pro Asp Trp
      20      25      30
Asp Phe Asn Pro Asn Lys Asp Gln Trp Pro Glu Ala Asn Gln Val Gly
      35      40      45
Ala Gly Gly Arg Met Asn Ser Asp Ser Glu Cys Pro Leu Ser His Asp
      50      55      60
Gly Tyr Cys Leu His Asp Gly Val Cys Met Tyr Ile Glu Ala Leu Asp
      65      70      75      80
Lys Tyr Ala Cys Asn Cys Val Val Gly Tyr Ile Gly Glu Arg Cys Gln
      85      90      95
Tyr Arg Asp Leu Lys Trp Trp Glu Leu Arg Lys Ala Ala Ala Pro Ala
      100      105      110
Pro Asn Met Glu Asn Thr Thr Ser Gly Phe Leu Gly Pro Leu Leu Val
      115      120      125
Leu Gln Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln
      130      135      140
Ser Leu Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Ala Pro
      145      150      155      160
Thr Cys Pro Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn His Ser Pro
      165      170      175
Thr Ser Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg
      180      185      190
Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu
      195      200      205
Leu Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu Leu
      210      215      220
Pro Gly Thr Ser Thr Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr Ile
      225      230      235      240
Pro Ala Arg Gly Thr Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro
      245      250      255
Ser Asp Arg Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe
      260      265      270
Ala Arg Phe Leu Trp Glu Trp Ala Ser Val Arg Phe Ser Trp Leu Ser
      275      280      285
Leu Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val
      290      295      300
Trp Leu Ser Val Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr
      305      310      315      320

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Sequence Listing.txt

Asn Ile Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu
325 330 335

Trp Val Tyr Ile
340

<210> 94
<211> 879
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Artificially
synthesized sequence

<400> 94
atgggggacga atcttttctgt tcccaatcct ctgggattct ttcccgatca ccagttggac 60
cctgcgttcg gagccaactc aaacaatcca gattgggact tcaaccccaa caaggatcaa 120
tggccagagg caaatcaggt aggagcgggc ggccgctgga gccaccgca gttcgaaaaa 180
gcggccgccc ctgcaccgaa catggagaac acaacatcag gattcctagg acccctgctc 240
gtgttacagg cggggttttt cttgttgaca agaatcctca caataccaca gagtctagac 300
tcgtggtgga cttctctcaa ttttctaggg ggagcaccca cgtgtcctgg ccaaaattcg 360
cagtccccaa cctccaatca ctcaccaacc tcttgtcctc caatttgtcc tggctatcgc 420
tggatgtgtc tgcggcggtt tatcatattc ctcttcattc tgctgctatg cctcatcttc 480
ttgttggttc ttctggacta ccaagggtatg ttgcccgttt gtcctctact tccaggaaca 540
tcaaccacca gcacggggcc atgcaagacc tgcacgattc ctgctcaagg aacctctatg 600
tttccctctt gttgctgtac aaaaccttcg gacggaaact gcacttgtat tcccatccca 660
tcatcctggg ctttcgcaag attcctatgg gagtgggcct cagtcctgtt ctcctggctc 720
agtttactag tgccatttgt tcagtggttc gtagggcctt cccccactgt ttggccttca 780
gttatatgga tgatgtggta ttgggggcca agtctgtaca acatcttgag tcccttttta 840
cctctattac caattttctt ttgtctttgg gtatacatt 879

<210> 95
<211> 293
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Artificially
synthesized sequence

<400> 95
Met Gly Thr Asn Leu Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp
1 5 10 15
His Gln Leu Asp Pro Ala Phe Gly Ala Asn Ser Asn Asn Pro Asp Trp
20 25 30
Asp Phe Asn Pro Asn Lys Asp Gln Trp Pro Glu Ala Asn Gln Val Gly
35 40 45
Ala Gly Gly Arg Trp Ser His Pro Gln Phe Glu Lys Ala Ala Ala Pro
50 55 60
Ala Pro Asn Met Glu Asn Thr Thr Ser Gly Phe Leu Gly Pro Leu Leu
65 70 75 80
Val Leu Gln Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro
85 90 95
Gln Ser Leu Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Ala
Page 61

Sequence Listing.txt

100

105

110

Pro Thr Cys Pro Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn His Ser
 115 120 125
 Pro Thr Ser Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu
 130 135 140
 Arg Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe
 145 150 155 160
 Leu Leu Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu
 165 170 175
 Leu Pro Gly Thr Ser Thr Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr
 180 185 190
 Ile Pro Ala Gln Gly Thr Ser Met Phe Pro Ser Cys Cys Cys Thr Lys
 195 200 205
 Pro Ser Asp Gly Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala
 210 215 220
 Phe Ala Arg Phe Leu Trp Glu Trp Ala Ser Val Arg Phe Ser Trp Leu
 225 230 235 240
 Ser Leu Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr
 245 250 255
 Val Trp Leu Ser Val Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu
 260 265 270
 Tyr Asn Ile Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys
 275 280 285
 Leu Trp Val Tyr Ile
 290

<210> 96

<211> 879

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> :96

atggggacga	atcttttctgt	tcccaatcct	ctgggattct	ttcccgatca	ccagttggac	60
cctgcgttcg	gagccaactc	aaacaatcca	gattgggact	tcaaccccaa	caaggatcaa	120
tggccagagg	caaatcaggt	aggagcgggc	ggccgctgga	gccaccgcga	gttcgaaaaa	180
gcggccgccc	ctgcaccgaa	catggagaac	acaacatcag	gattcctagg	acccctgctc	240
gtgttacagg	cgggggtttt	cttggtgaca	agaatcctca	caataccaca	gagtctagac	300
tcgtggtgga	cttctctcaa	ttttctaggg	ggagcaccga	cgtgtcctg	ccaaaattcg	360
cagtcccca	cctccaatca	ctcaccaacc	tcttgtcctc	caatttgctc	tggctatcgc	420
tggatgtgtc	tgcggcggtt	tatcatattc	ctcttcattc	tgctgctatg	cctcatcttc	480
ttgttggttc	ttctggacta	ccaaggtatg	ttgcccggtt	gtcctctact	tccaggaaca	540
tcaaccacca	gcacggggcc	atgcaagacc	tgcacgattc	ctgctcgagg	aacctctatg	600
tttccctctt	gttgctgtac	aaaaccttcg	gacggaaact	gcacttgat	tcccatccca	660
tcattctggg	ctttcgcaag	attcctatgg	gagtgggcct	cagtccggtt	ctcctggctc	720
agtttactag	tgccatttgt	tcagtggttc	gtagggtttt	ccccactgt	ttggctttca	780
gttatatgga	tgatgtggta	ttgggggcca	agtctgtaca	acatcttgag	tcccttttta	840

cctctattac caattttctt ttgtctttgg gtatacatt

879

<210> 97

<211> 293

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
synthesized sequence

<400> 97

Met Gly Thr Asn Leu Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp
1 5 10 15His Gln Leu Asp Pro Ala Phe Gly Ala Asn Ser Asn Asn Pro Asp Trp
20 25 30Asp Phe Asn Pro Asn Lys Asp Gln Trp Pro Glu Ala Asn Gln Val Gly
35 40 45Ala Gly Gly Arg Trp Ser His Pro Gln Phe Glu Lys Ala Ala Ala Pro
50 55 60Ala Pro Asn Met Glu Asn Thr Thr Ser Gly Phe Leu Gly Pro Leu Leu
65 70 75 80Val Leu Gln Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro
85 90 95Gln Ser Leu Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Ala
100 105 110Pro Thr Cys Pro Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn His Ser
115 120 125Pro Thr Ser Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu
130 135 140Arg Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe
145 150 155 160Leu Leu Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu
165 170 175Leu Pro Gly Thr Ser Thr Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr
180 185 190Ile Pro Ala Arg Gly Thr Ser Met Phe Pro Ser Cys Cys Cys Thr Lys
195 200 205Pro Ser Asp Gly Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala
210 215 220Phe Ala Arg Phe Leu Trp Glu Trp Ala Ser Val Arg Phe Ser Trp Leu
225 230 235 240Ser Leu Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr
245 250 255Val Trp Leu Ser Val Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu
260 265 270

Sequence Listing.txt

Tyr Asn Ile Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys
275 280 285

Leu Trp Val Tyr Ile
290

<210> 98
<211> 879
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Artificially
synthesized sequence

<400> 98
atggggacga atcttttctgt tccaatcct ctgggattct ttcccgatca ccagttggac 60
cctgcgttcg gagccaactc aaacaatcca gattgggact tcaaccccaa caaggatcaa 120
tggccagagg caaatcaggt aggagcgggc ggccgctgga gccaccgcga gttcgaaaaa 180
gcggccgccc ctgcaccgaa catggagaac acaacatcag gattcctagg acccctgctc 240
gtgttacagg cgggggtttt ctgtttgaca agaatcctca caataccaca gagtctagac 300
tcgtggtgga ctctctctcaa ttttctaggg ggagcaccca cgtgtcctgg ccaaaattcg 360
cagtcccaa cctccaatca ctcaccaacc tcttgtcctc caatttgtcc tggctatcgc 420
tggatgtgtc tgcggcgttt tatcatattc ctcttcatcc tgctgctatg cctcatcttc 480
ttgttgggtc ttctggacta ccaaggtatg ttgcccgttt gtctcttact tccaggaaca 540
tcaaccacca gcacggggcc atgcaagacc tgcacgattc ctgctcaagg aacctctatg 600
tttccctctt gttgctgtac aaaaccttcg gacagaaact gcacttgtat tcccatccca 660
tcacctctgg ctttcgcaag attcctatgg gagtgggcct cagtccgttt ctcttggtc 720
agtttactag tgccatttgt tcagtgggtc gtagggttt cccccactgt ttggctttca 780
gttatatgga tgatgtggtt ttgggggcca agtctgtaca acatcttgag tcccttttta 840
cctctattac caattttctt ttgtctttgg gtatacatt 879

<210> 99
<211> 293
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Artificially
synthesized sequence

<400> 99
Met Gly Thr Asn Leu Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp
1 5 10 15
His Gln Leu Asp Pro Ala Phe Gly Ala Asn Ser Asn Asn Pro Asp Trp
20 25 30
Asp Phe Asn Pro Asn Lys Asp Gln Trp Pro Glu Ala Asn Gln Val Gly
35 40 45
Ala Gly Gly Arg Trp Ser His Pro Gln Phe Glu Lys Ala Ala Ala Pro
50 55 60
Ala Pro Asn Met Glu Asn Thr Thr Ser Gly Phe Leu Gly Pro Leu Leu
65 70 75 80
Val Leu Gln Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro
85 90 95

Sequence Listing.txt

Gln Ser Leu Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Ala
 100 105 110
 Pro Thr Cys Pro Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn His Ser
 115 120 125
 Pro Thr Ser Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu
 130 135 140
 Arg Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe
 145 150 155 160
 Leu Leu Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu
 165 170 175
 Leu Pro Gly Thr Ser Thr Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr
 180 185 190
 Ile Pro Ala Gln Gly Thr Ser Met Phe Pro Ser Cys Cys Cys Thr Lys
 195 200 205
 Pro Ser Asp Arg Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala
 210 215 220
 Phe Ala Arg Phe Leu Trp Glu Trp Ala Ser Val Arg Phe Ser Trp Leu
 225 230 235 240
 Ser Leu Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr
 245 250 255
 Val Trp Leu Ser Val Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu
 260 265 270
 Tyr Asn Ile Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys
 275 280 285
 Leu Trp Val Tyr Ile
 290

<210> 100

<211> 879

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
 synthesized sequence

<400> 100

atgggggacga	atcttttctgt	tcccaatcct	ctgggattct	ttcccgatca	ccagttggac	60
cctgcgttcg	gagccaactc	aaacaatcca	gattgggact	tcaaccccaa	caaggatcaa	120
tggccagagg	caaatcaggt	aggagcgggc	ggccgctgga	gccacccgca	gttcgaaaaa	180
gcggccgccc	ctgcaccgaa	catggagaac	acaacatcag	gattcctagg	acccctgctc	240
gtgttacagg	cggggttttt	cttggtgaca	agaatcctca	caataccaca	gagtctagac	300
tcgtgggtgga	cttctctcaa	ttttctaggg	ggagcaccca	cgtgtcctgg	ccaaaattcg	360
cagtccccaa	cctccaatca	ctcaccaacc	tcttgtcctc	caatttgtcc	tggctatcgc	420
tggatgtgtc	tgcggcgttt	tatcatattc	ctcttcattc	tgctgctatg	cctcatcttc	480
ttgttggttc	ttctggacta	ccaaggtatg	ttgcccggtt	gtcctctact	tccaggaaca	540
tcaaccacca	gcacggggcc	atgcaagacc	tgcacgattc	ctgctcgagg	aacctctatg	600
tttccctctt	gttgctgtac	aaaaccttcg	gacagaaact	gcacttgat	tcccatccca	660
tcatcctggg	ctttcgcaag	attcctatgg	gagtgggcct	cagtccgttt	ctcctggctc	720
agtttactag	tgccatttgt	tcagtgggtc	gtagggcctt	ccccactgt	ttggctttca	780

Sequence Listing.txt

gttatatgga tgatgtggta ttgggggcca agtctgtaca acatcttgag tcccttttta 840
cctctattac caattttctt ttgtctttgg gtatacatt 879

<210> 101

<211> 293

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
synthesized sequence

<400> 101

Met	Gly	Thr	Asn	Leu	Ser	Val	Pro	Asn	Pro	Leu	Gly	Phe	Phe	Pro	Asp
1				5				10						15	
His	Gln	Leu	Asp	Pro	Ala	Phe	Gly	Ala	Asn	Ser	Asn	Asn	Pro	Asp	Trp
			20					25					30		
Asp	Phe	Asn	Pro	Asn	Lys	Asp	Gln	Trp	Pro	Glu	Ala	Asn	Gln	Val	Gly
		35					40					45			
Ala	Gly	Gly	Arg	Trp	Ser	His	Pro	Gln	Phe	Glu	Lys	Ala	Ala	Ala	Pro
	50					55					60				
Ala	Pro	Asn	Met	Glu	Asn	Thr	Thr	Ser	Gly	Phe	Leu	Gly	Pro	Leu	Leu
	65				70					75					80
Val	Leu	Gln	Ala	Gly	Phe	Phe	Leu	Leu	Thr	Arg	Ile	Leu	Thr	Ile	Pro
				85					90					95	
Gln	Ser	Leu	Asp	Ser	Trp	Trp	Thr	Ser	Leu	Asn	Phe	Leu	Gly	Gly	Ala
			100					105					110		
Pro	Thr	Cys	Pro	Gly	Gln	Asn	Ser	Gln	Ser	Pro	Thr	Ser	Asn	His	Ser
		115					120					125			
Pro	Thr	Ser	Cys	Pro	Pro	Ile	Cys	Pro	Gly	Tyr	Arg	Trp	Met	Cys	Leu
	130					135					140				
Arg	Arg	Phe	Ile	Ile	Phe	Leu	Phe	Ile	Leu	Leu	Leu	Cys	Leu	Ile	Phe
	145				150					155					160
Leu	Leu	Val	Leu	Leu	Asp	Tyr	Gln	Gly	Met	Leu	Pro	Val	Cys	Pro	Leu
				165					170					175	
Leu	Pro	Gly	Thr	Ser	Thr	Thr	Ser	Thr	Gly	Pro	Cys	Lys	Thr	Cys	Thr
			180					185					190		
Ile	Pro	Ala	Arg	Gly	Thr	Ser	Met	Phe	Pro	Ser	Cys	Cys	Cys	Thr	Lys
		195					200					205			
Pro	Ser	Asp	Arg	Asn	Cys	Thr	Cys	Ile	Pro	Ile	Pro	Ser	Ser	Trp	Ala
	210					215					220				
Phe	Ala	Arg	Phe	Leu	Trp	Glu	Trp	Ala	Ser	Val	Arg	Phe	Ser	Trp	Leu
	225				230					235					240
Ser	Leu	Leu	Val	Pro	Phe	Val	Gln	Trp	Phe	Val	Gly	Leu	Ser	Pro	Thr
				245					250					255	
Val	Trp	Leu	Ser	Val	Ile	Trp	Met	Met	Trp	Tyr	Trp	Gly	Pro	Ser	Leu

260

265

270

Tyr Asn Ile Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys
 275 280 285

Leu Trp Val Tyr Ile
 290

<210> 102

<211> 1167

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 102

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atgggagggtt ggtcttccaa acctcggaaa ggcatgggga cgaatctttc tgttcccaat 60
cctctgggat tctttccga tcaccagttg gacggcggcc gcgcgcaaca cgatgaagcc 120
gtagacaaca aattcaacaa agaacaacaa aacgcgttct atgagatctt acatttacct 180
aacttaaacg aagaacaacg aaacgccttc atccaaagtt taaaagatga cccaagccaa 240
agcgctaacc ttttagcaga agctaaaaag ctaaagatg ctcaggcgcc gaaagtagac 300
aacaattca acaaagaaca acaaaacgcg ttctatgaga tcttacattt acctaactta 360
aacgaagaac aacgaaacgc cttcatccaa agtttaaaag atgaccaag ccaaagcgct 420
aaccttttag cagaagctaa aaagctaaat gatgctcagg cgccgaaagc ggccgcccct 480
gcaccgaaca tggagaacac aacatcagga ttctaggac ccctgctcgt gttacaggcg 540
gggtttttct tgttgacaag aatcctcaca ataccacaga gtctagactc gtggtggact 600
tctctcaatt ttctaggggg agcaccacag tgtcctggcc aaaattcgca gtccccaacc 660
tccaatcatt caccaacctc ttgtcctcca attgtcctg gctatcgctg gatgtgtctg 720
cggcgtttta tcatattcct cttcatcctg ctgctatgcc tcatcttctt gttggttctt 780
ctggactacc aagggtatgtt gcccgtttgt cctctacttc caggaacatc aaccaccagc 840
acggggccat gcaagacctg cacgattcct gctcaaggaa cctctatgtt tccctcttgt 900
tgctgtacaa aaccttcgga cggaaactgc acttgatttc ccatcccatc atcctgggct 960
ttcgcaagat tcctatggga gtgggcctca gtccgtttct cctggctcag tttactagt 1020
ccatttgttc agtggttcgt agggctttcc cccactgttt ggctttcagt tatatggatg 1080
atgtgggtatt gggggccaag tctgtacaac atcttgagtc ctttttacc tctattacca 1140
attttctttt gtcittgggt atacatt

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<210> 103

<211> 389

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 103

Met Gly Gly Trp Ser Ser Lys Pro Arg Lys Gly Met Gly Thr Asn Leu
 1 5 10 15

Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp His Gln Leu Asp Gly
 20 25 30

Gly Arg Ala Gln His Asp Glu Ala Val Asp Asn Lys Phe Asn Lys Glu
 35 40 45

Gln Gln Asn Ala Phe Tyr Glu Ile Leu His Leu Pro Asn Leu Asn Glu
 50 55 60

Sequence Listing.txt

Glu Gln Arg Asn Ala Phe Ile Gln Ser Leu Lys Asp Asp Pro Ser Gln
 65 70 75 80
 Ser Ala Asn Leu Leu Ala Glu Ala Lys Lys Leu Asn Asp Ala Gln Ala
 85 90 95
 Pro Lys Val Asp Asn Lys Phe Asn Lys Glu Gln Gln Asn Ala Phe Tyr
 100 105 110
 Glu Ile Leu His Leu Pro Asn Leu Asn Glu Glu Gln Arg Asn Ala Phe
 115 120 125
 Ile Gln Ser Leu Lys Asp Asp Pro Ser Gln Ser Ala Asn Leu Leu Ala
 130 135 140
 Glu Ala Lys Lys Leu Asn Asp Ala Gln Ala Pro Lys Ala Ala Ala Pro
 145 150 155 160
 Ala Pro Asn Met Glu Asn Thr Thr Ser Gly Phe Leu Gly Pro Leu Leu
 165 170 175
 Val Leu Gln Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro
 180 185 190
 Gln Ser Leu Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Ala
 195 200 205
 Pro Thr Cys Pro Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn His Ser
 210 215 220
 Pro Thr Ser Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu
 225 230 235 240
 Arg Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe
 245 250 255
 Leu Leu Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu
 260 265 270
 Leu Pro Gly Thr Ser Thr Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr
 275 280 285
 Ile Pro Ala Gln Gly Thr Ser Met Phe Pro Ser Cys Cys Cys Thr Lys
 290 295 300
 Pro Ser Asp Gly Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala
 305 310 315 320
 Phe Ala Arg Phe Leu Trp Glu Trp Ala Ser Val Arg Phe Ser Trp Leu
 325 330 335
 Ser Leu Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr
 340 345 350
 Val Trp Leu Ser Val Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu
 355 360 365
 Tyr Asn Ile Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys
 370 375 380
 Leu Trp Val Tyr Ile
 385

Sequence Listing.txt

<210> 104
 <211> 1167
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 104
 atgggaggtt ggtcttccaa acctcggaaa ggcattgggga cgaatctttc tgttcccaat 60
 cctctgggat tctttcccga tcaccagttg gacggcggcc gcgcgcaaca cgatgaagcc 120
 gtagacaaca aattcaacaa agaacaacaa aacgcgttct atgagatctt acatttacct 180
 aacttaaacg aagaacaacg aaacgccttc atccaaagtt taaaagatga cccaagccaa 240
 agcgctaacc ttttagcaga agctaaaaag cttaaagatg ctcaggcgcc gaaagtagac 300
 aacaaattca acaaagaaca acaaaacgcg ttctatgaga tcttacattt acctaactta 360
 aacgaagaac aacgaaacgc cttcatccaa agtttaaaaag atgacccaag ccaaagcgct 420
 aaccttttag cagaagctaa aaagctaaat gatgctcagg cgccgaaagc ggccgcccct 480
 gcaccgaaca tggagaacac aacatcagga ttcctaggac ccctgctcgt gttacaggcg 540
 ggggttttct tgttgacaag aatcctcaca ataccacaga gtctagactc gtggtggact 600
 tctctcaatt ttctaggggg agcaccacg tgcctggcc aaaattcgca gtccccaacc 660
 tccaatcaact caccaacctc ttgtcctcca atttgtcctg gctatcgctg gatgtgtctg 720
 cggcgtttta tcatattcct cttcatcctg ctgctatgcc tcatcttctt gttggttctt 780
 ctggactacc aaggtatgtt gcccgtttgt cctctacttc caggaacatc aaccaccagc 840
 acggggccat gcaagacctg cacgattcct gctcgaggaa cctctatgtt tccctcttgt 900
 tgctgtacaa aaccttcgga cggaaactgc acttgatttc ccatcccatc atcctgggct 960
 ttcgcaagat tcctatggga gtgggcctca gtccgtttct cctggctcag ttactagtgt 1020
 ccatttggtc agtggttcgt agggctttcc cccactgttt ggctttcagt tatatggatg 1080
 atgtggtatt gggggccaaag tctgtacaac atcttgagtc cttttttacc tctattacca 1140
 attttctttt gcttttgggt atacatt 1167

<210> 105
 <211> 389
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 105
 Met Gly Gly Trp Ser Ser Lys Pro Arg Lys Gly Met Gly Thr Asn Leu
 1 5 10 15
 Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp His Gln Leu Asp Gly
 20 25 30
 Gly Arg Ala Gln His Asp Glu Ala Val Asp Asn Lys Phe Asn Lys Glu
 35 40 45
 Gln Gln Asn Ala Phe Tyr Glu Ile Leu His Leu Pro Asn Leu Asn Glu
 50 55 60
 Glu Gln Arg Asn Ala Phe Ile Gln Ser Leu Lys Asp Asp Pro Ser Gln
 65 70 75 80
 Ser Ala Asn Leu Leu Ala Glu Ala Lys Lys Leu Asn Asp Ala Gln Ala
 85 90 95
 Pro Lys Val Asp Asn Lys Phe Asn Lys Glu Gln Gln Asn Ala Phe Tyr
 100 105 110

Sequence Listing.txt

Glu Ile Leu His Leu Pro Asn Leu Asn Glu Glu Gln Arg Asn Ala Phe
115 120 125
Ile Gln Ser Leu Lys Asp Asp Pro Ser Gln Ser Ala Asn Leu Leu Ala
130 135 140
Glu Ala Lys Lys Leu Asn Asp Ala Gln Ala Pro Lys Ala Ala Ala Pro
145 150 155 160
Ala Pro Asn Met Glu Asn Thr Thr Ser Gly Phe Leu Gly Pro Leu Leu
165 170 175
Val Leu Gln Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro
180 185 190
Gln Ser Leu Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Ala
195 200 205
Pro Thr Cys Pro Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn His Ser
210 215 220
Pro Thr Ser Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu
225 230 235 240
Arg Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe
245 250 255
Leu Leu Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu
260 265 270
Leu Pro Gly Thr Ser Thr Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr
275 280 285
Ile Pro Ala Arg Gly Thr Ser Met Phe Pro Ser Cys Cys Cys Thr Lys
290 295 300
Pro Ser Asp Gly Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala
305 310 315 320
Phe Ala Arg Phe Leu Trp Glu Trp Ala Ser Val Arg Phe Ser Trp Leu
325 330 335
Ser Leu Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr
340 345 350
Val Trp Leu Ser Val Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu
355 360 365
Tyr Asn Ile Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys
370 375 380
Leu Trp Val Tyr Ile
385

<210> 106

<211> 1167

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially

Sequence Listing.txt

synthesized sequence

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<400> 106
atgggagggtt ggtcttccaa acctcggaaa ggcattgggga cgaatctttc tgttcccaat 60
cctctgggat tctttcccga tcaccagttg gacggcggcc gcgcgcaaca cgatgaagcc 120
gtagacaaca aattcaacaa agaacaacaa aacgcgttct atgagatctt acatttacct 180
aacitaaacg aagaacaacg aaacgccttc atccaaagtt taaaagatga cccaagccaa 240
agcgctaacc ttttagcaga agctaaaaag cttaatgatg ctcaggcgcc gaaagtagac 300
aacaattca acaaaagaaca acaaaacgcg ttctatgaga tcttacattt acctaactta 360
aacgaagaac aacgaaacgc cttcatccaa agtttaaaag atgacccaag ccaaagcgct 420
aaccttttag cagaagctaa aaagctaaat gatgctcagg cgccgaaagc ggccgcccct 480
gcaccgaaca tggagaacac aacatcagga ttcctaggac ccctgctcgt gttacaggcg 540
gggtttttct tgttgacaag aatcctcaca ataccacaga gtctagactc gtggtggact 600
tcttcaatt ttctaggggg agcaccacag tgtcctggcc aaaattcgca gtccccaacc 660
tccaatcact caccaacctc ttgtcctcca atttgtcctg gctatcgctg gatgtgtctg 720
cggcgtttta tcatattcct cttcatcctg ctgctatgcc tcatcttctt gttggttctt 780
ctggactacc aaggatgtt gcccgtttgt cctctacttc caggaacatc aaccaccagc 840
acggggccat gcaagacctg cacgattcct gctcaaggaa cctctatgtt tccctcttgt 900
tgctgtacaa aaccttcgga cagaaactgc acttgatttc ccattccatc atcctgggct 960
ttcgcaagat tcctatggga gtgggcctca gtccgtttct cctggctcag tttactagt 1020
ccatttggtc agtggttctg agggctttcc cccactgttt ggctttcagt tatatggatg 1080
atgtggtatt gggggccaag tctgtacaac atcttgagtc cttttttacc tctattacca 1140
attttctttt gtctttgggt atacatt 1167

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<210> 107

<211> 389

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 107

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Met Gly Gly Trp Ser Ser Lys Pro Arg Lys Gly Met Gly Thr Asn Leu
 1          5          10          15
Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp His Gln Leu Asp Gly
          20          25          30
Gly Arg Ala Gln His Asp Glu Ala Val Asp Asn Lys Phe Asn Lys Glu
          35          40          45
Gln Gln Asn Ala Phe Tyr Glu Ile Leu His Leu Pro Asn Leu Asn Glu
          50          55          60
Glu Gln Arg Asn Ala Phe Ile Gln Ser Leu Lys Asp Asp Pro Ser Gln
          65          70          75          80
Ser Ala Asn Leu Leu Ala Glu Ala Lys Lys Leu Asn Asp Ala Gln Ala
          85          90          95
Pro Lys Val Asp Asn Lys Phe Asn Lys Glu Gln Gln Asn Ala Phe Tyr
          100          105          110
Glu Ile Leu His Leu Pro Asn Leu Asn Glu Glu Gln Arg Asn Ala Phe
          115          120          125
Ile Gln Ser Leu Lys Asp Asp Pro Ser Gln Ser Ala Asn Leu Leu Ala
          130          135          140
Glu Ala Lys Lys Leu Asn Asp Ala Gln Ala Pro Lys Ala Ala Ala Pro

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Sequence Listing.txt

```

145              150              155              160
Ala Pro Asn Met Glu Asn Thr Thr Ser Gly Phe Leu Gly Pro Leu Leu
165              170              175
Val Leu Gln Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro
180              185              190
Gln Ser Leu Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Ala
195              200              205
Pro Thr Cys Pro Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn His Ser
210              215              220
Pro Thr Ser Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu
225              230              235
Arg Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe
245              250              255
Leu Leu Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu
260              265              270
Leu Pro Gly Thr Ser Thr Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr
275              280              285
Ile Pro Ala Gln Gly Thr Ser Met Phe Pro Ser Cys Cys Cys Thr Lys
290              295              300
Pro Ser Asp Arg Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala
305              310              315              320
Phe Ala Arg Phe Leu Trp Glu Trp Ala Ser Val Arg Phe Ser Trp Leu
325              330              335
Ser Leu Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr
340              345              350
Val Trp Leu Ser Val Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu
355              360              365
Tyr Asn Ile Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys
370              375              380
Leu Trp Val Tyr Ile
385

```

<210> 108

<211> 1167

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
synthesized sequence

<400> 108

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atgggaggtt ggtcttccaa acctcggaaa ggcattgggga cgaatctttc tgttcccaat 60
cctctgggat tctttcccgga tcaccagttg gacggcggcc gcgcgcaaca cgatgaagcc 120
gtagacaaca aattcaacaa agaacaacaa aacgcgttct atgagatctt acatttacct 180
aacttaaacg aagaacaacg aaacgccttc atccaaagtt taaaagatga cccaagccaa 240
agcgctaacc ttttagcaga agctaaaaag ctaaattgatg ctcaggcgcc gaaagtagac 300

```

Sequence Listing.txt

```

aacaattca acaagaaca acaaacgcg ttctatgaga tcttacattt acctaactta 360
aacgaagaac aacgaaacgc ctctatccaa agtttaaaag atgacccaag ccaaagcgct 420
aaccttttag cagaagctaa aaagctaaat gatgctcagg cgccgaaagc ggccgcccct 480
gcaccgaaca tggagaacac aacatcagga ttctaggac ccctgctcgt gttacaggcg 540
gggtttttct tgttgacaag aatcctcaca ataccacaga gtctagactc gtggtggact 600
tctctcaatt ttctaggggg agcaccacag tgcctggcc aaaattcgca gtccccaacc 660
tccaatcact caccaacctc ttgtcctcca attgtcctg gctatcgctg gatgtgtctg 720
cggcggtttta tcatatttct ctctatcctg ctgctatgcc tcatcttctt gttggttctt 780
ctggactacc aagggtatgtt gcccgtttgt cctctacttc caggaacatc aaccaccagc 840
acggggccat gcaagacctg cacgattcct gctcgaggaa cctctatgtt tccctcttgt 900
tgctgtacaa aaccttcgga cagaaactgc acttgatttc ccatcccatc atcctgggct 960
ttcgcaagat tcctatggga gtgggcctca gtccgtttct cctggctcag ttactagtg 1020
ccatttggtc agtggttcgt agggctttcc cccactgttt ggctttcagt tatatggatg 1080
atgtggtatt gggggccaag tctgtacaa atcttgagtc ctttttacc tctattacca 1140
atcttctttt gtctttgggt atacatt 1167

```

<210> 109

<211> 389

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 109

```

Met Gly Gly Trp Ser Ser Lys Pro Arg Lys Gly Met Gly Thr Asn Leu
 1          5          10          15
Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp His Gln Leu Asp Gly
          20          25          30
Gly Arg Ala Gln His Asp Glu Ala Val Asp Asn Lys Phe Asn Lys Glu
          35          40          45
Gln Gln Asn Ala Phe Tyr Glu Ile Leu His Leu Pro Asn Leu Asn Glu
          50          55          60
Glu Gln Arg Asn Ala Phe Ile Gln Ser Leu Lys Asp Asp Pro Ser Gln
          65          70          75          80
Ser Ala Asn Leu Leu Ala Glu Ala Lys Lys Leu Asn Asp Ala Gln Ala
          85          90          95
Pro Lys Val Asp Asn Lys Phe Asn Lys Glu Gln Gln Asn Ala Phe Tyr
          100          105          110
Glu Ile Leu His Leu Pro Asn Leu Asn Glu Glu Gln Arg Asn Ala Phe
          115          120          125
Ile Gln Ser Leu Lys Asp Asp Pro Ser Gln Ser Ala Asn Leu Leu Ala
          130          135          140
Glu Ala Lys Lys Leu Asn Asp Ala Gln Ala Pro Lys Ala Ala Ala Pro
          145          150          155          160
Ala Pro Asn Met Glu Asn Thr Thr Ser Gly Phe Leu Gly Pro Leu Leu
          165          170          175
Val Leu Gln Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro
          180          185          190

```

Sequence Listing.txt

Gln Ser Leu Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Ala
195 200
Pro Thr Cys Pro Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn His Ser
210 215 220
Pro Thr Ser Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu
225 230 235 240
Arg Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe
245 250 255
Leu Leu Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu
260 265 270
Leu Pro Gly Thr Ser Thr Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr
275 280 285
Ile Pro Ala Arg Gly Thr Ser Met Phe Pro Ser Cys Cys Cys Thr Lys
290 295 300
Pro Ser Asp Arg Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala
305 310 315 320
Phe Ala Arg Phe Leu Trp Glu Trp Ala Ser Val Arg Phe Ser Trp Leu
325 330 335
Ser Leu Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr
340 345 350
Val Trp Leu Ser Val Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu
355 360 365
Tyr Asn Ile Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys
370 375 380
Leu Trp Val Tyr Ile
385

<210> 110

<211> 966

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
synthesized sequence

<400> 110

atgggaggtt	ggtcttccaa	acctcggaaa	ggcatgggga	cgaatctttc	tgttcccaat	60
cctctgggat	tccttcccga	tcaccagttg	gacggcggcc	gcatgaactc	tgattccgaa	120
tgcccgtgt	ctcatgacgg	ttactgcctg	catgatggcg	tatgcatgta	catcgaagct	180
ctggacaaat	acgcatgcaa	ctgtgttgta	ggttacatcg	gcgaacgttg	ccagtatcgc	240
gacctgaaat	ggtgggaact	gcgtaaggcg	gccgcccctg	caccgaacat	ggagaacaca	300
acatcaggat	tcctaggacc	cctgctcgtg	ttacaggcgg	ggtttttctt	gttgacaaga	360
atcctcacia	taccacagag	tctagactcg	tggtggactt	ctctcaattt	tctaggggga	420
gcacccacgt	gtcctggcca	aaattcgag	tccccaacct	ccaatcactc	accaacctct	480
tgtcctccaa	tttgtcctgg	ctatcgctgg	atgtgtctgc	ggcgttttat	catattcctc	540
ttcatcctgc	tgctatgcct	catcttcttg	ttggttcttc	tggaactacca	aggtatgttg	600
cccgtttgtc	ctctacttcc	aggaacatca	accaccagca	cggggccatg	caagacctgc	660
acgattcctg	ctcaagggaac	ctctatgttt	ccctcttggt	gctgtacaaa	accttcggac	720
ggaaactgca	cttgatttcc	catcccatca	tcctgggctt	tcgcaagatt	cctatgggag	780

Sequence Listing.txt

```

tgggcctcag tccgtttctc ctggctcagt ttactagtgc catttggtca gtggttcgta 840
gggctttccc ccactgtttg gctttcagtt atatggatga tgtggtattg ggggccaagt 900
ctgtacaaca tcttgagtc ctttttacct ctattaccaa ttttctttg tctttgggta 960
tacatt 966

```

<210> 111
 <211> 322
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Artificially
 synthesized sequence

<400> 111
 Met Gly Gly Trp Ser Ser Lys Pro Arg Lys Gly Met Gly Thr Asn Leu
 1 5 10 15
 Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp His Gln Leu Asp Gly
 20 25 30
 Gly Arg Met Asn Ser Asp Ser Glu Cys Pro Leu Ser His Asp Gly Tyr
 35 40 45
 Cys Leu His Asp Gly Val Cys Met Tyr Ile Glu Ala Leu Asp Lys Tyr
 50 55 60
 Ala Cys Asn Cys Val Val Gly Tyr Ile Gly Glu Arg Cys Gln Tyr Arg
 65 70 75 80
 Asp Leu Lys Trp Trp Glu Leu Arg Lys Ala Ala Ala Pro Ala Pro Asn
 85 90 95
 Met Glu Asn Thr Thr Ser Gly Phe Leu Gly Pro Leu Leu Val Leu Gln
 100 105 110
 Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser Leu
 115 120 125
 Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Ala Pro Thr Cys
 130 135 140
 Pro Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn His Ser Pro Thr Ser
 145 150 155 160
 Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg Arg Phe
 165 170 175
 Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu Val
 180 185 190
 Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu Leu Pro Gly
 195 200 205
 Thr Ser Thr Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr Ile Pro Ala
 210 215 220
 Gln Gly Thr Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro Ser Asp
 225 230 235 240
 Gly Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe Ala Arg
 245 250 255

Sequence Listing.txt

Phe Leu Trp Glu Trp Ala Ser Val Arg Phe Ser Trp Leu Ser Leu Leu
260 265 270
Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp Leu
275 280 285
Ser Val Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr Asn Ile
290 295 300
Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu Trp Val
305 310 315 320
Tyr Ile

<210> 112
<211> 966
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Artificially
synthesized sequence

<400> 112
atgggagggtt ggtcttccaa acctcggaaa ggcattgggga cgaatctttc tgttcccaat 60
cctctgggat tctttcccga tcaccagttg gacggcggcc gcatgaactc tgattccgaa 120
tgcccgtgt ctcatgacgg ttactgcctg catgatggcg tatgcatgta catcgaagct 180
ctggacaaat acgcatgcaa ctgtgttgta ggttacatcg gcgaacgttg ccagtatcgc 240
gacctgaaat ggtgggaact gcgtaaggcg gccgcccctg caccgaacat ggagaacaca 300
acatcaggat tcctaggacc cctgctcgtg ttacaggcgg ggtttttctt gttgacaaga 360
atcctcaciaa taccacagag tctagactcg tgggtgactt ctctcaattt tctaggggga 420
gcacccacgt gtcctggcca aaattcgag tccccaacct ccaatcactc accaacctct 480
tgtcctccaa tttgtcctgg ctatcgctgg atgtgtctgc ggcgttttat catattcctc 540
ttcatcctgc tgctatgcct catcttcttg ttggttcttc tggactacca aggtatgttg 600
cccgtttgtc ctctacttcc aggaacatca accaccagca cggggccatg caagacctgc 660
acgattcctg ctcgagggaac ctctatgttt ccctcttggt gctgtacaaa accttcggac 720
ggaaactgca cttgtattcc catcccatca tcctgggctt tgcgaagatt cctatgggag 780
tgggcctcag tccgtttctc ctggctcagt ttactagtgc catttgttca gtggttcgta 840
gggctttccc ccactgtttg gctttcagtt atatggatga tgtggtattg ggggccaagt 900
ctgtacaaca tcttgagtcc ctttttacct ctattaccaa ttttcttttg tctttgggta 966
tacatt

<210> 113
<211> 322
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Artificially
synthesized sequence

<400> 113
Met Gly Gly Trp Ser Ser Lys Pro Arg Lys Gly Met Gly Thr Asn Leu
1 5 10 15
Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp His Gln Leu Asp Gly
20 25 30
Gly Arg Met Asn Ser Asp Ser Glu Cys Pro Leu Ser His Asp Gly Tyr

Sequence Listing.txt

35

40

45

Cys Leu His Asp Gly Val Cys Met Tyr Ile Glu Ala Leu Asp Lys Tyr
 50 55 60
 Ala Cys Asn Cys Val Val Gly Tyr Ile Gly Glu Arg Cys Gln Tyr Arg
 65 70 75 80
 Asp Leu Lys Trp Trp Glu Leu Arg Lys Ala Ala Ala Pro Ala Pro Asn
 85 90 95
 Met Glu Asn Thr Thr Ser Gly Phe Leu Gly Pro Leu Leu Val Leu Gln
 100 105 110
 Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser Leu
 115 120 125
 Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Ala Pro Thr Cys
 130 135 140
 Pro Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn His Ser Pro Thr Ser
 145 150 155 160
 Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg Arg Phe
 165 170 175
 Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu Val
 180 185 190
 Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu Leu Pro Gly
 195 200 205
 Thr Ser Thr Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr Ile Pro Ala
 210 215 220
 Arg Gly Thr Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro Ser Asp
 225 230 235 240
 Gly Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe Ala Arg
 245 250 255
 Phe Leu Trp Glu Trp Ala Ser Val Arg Phe Ser Trp Leu Ser Leu Leu
 260 265 270
 Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp Leu
 275 280 285
 Ser Val Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr Asn Ile
 290 295 300
 Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu Trp Val
 305 310 315 320
 Tyr Ile

<210> 114

<211> 966

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 114

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atgggagggtt ggtcttccaa acctcggaaa ggcattgggga cgaatctttc tgttcccaat 60
cctctgggat  tctttccga  tcaccagttg gacggcggcc gcatgaactc tgattccgaa 120
tgcccgtgt  ctcatgacgg ttactgcctg catgatggcg tatgcatgta catcgaagct 180
ctggacaaat  acgcatgcaa ctgtgttgta ggttacatcg gcgaacgttg ccagtatcgc 240
gacctgaaat  ggtgggaact gcgtaaggcg gccgcccctg caccgaacat ggagaacaca 300
acatcaggat  tcctaggacc cctgctcgtg ttacaggcgg ggtttttctt gttgacaaga 360
atcctcaca  taccacagag tctagactcg tggtaggactt ctctcaattt tctaggggga 420
gcacccacgt  gtcctggcca aaattcgcag tccccaacct ccaatcactc accaaccctc 480
tgtcctccaa  tttgtcctgg ctatcgctgg atgtgtctgc ggcgttttat catattcctc 540
ttcatcctgc  tgctatgcct catcttcttg ttggttcttc tggactacca aggtatgttg 600
cccgtttgtc  ctctacttcc aggaacatca accaccagca cggggccatg caagacctgc 660
acgattcctg  ctcaaggaa  ctctatgttt ccctctgtt gctgtacaaa accttcggac 720
agaaactgca  cttgtattcc catcccatca tcctgggctt tgcgaagatt cctatgggag 780
tgggcctcag  tccgtttctc ctggctcagt ttactagtgc catttgttca gtggttcgta 840
gggctttccc  ccactgtttg gctttcagtt atatggatga tgtggtattg ggggccaagt 900
ctgtacaaca  tcttgagtc  ctttttacct ctattaccaa ttttctttg tctttgggta 966
tacatt

```

<210> 115

<211> 322

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 115

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Met Gly Gly Trp Ser Ser Lys Pro Arg Lys Gly Met Gly Thr Asn Leu
 1          5          10          15
Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp His Gln Leu Asp Gly
          20          25          30
Gly Arg Met Asn Ser Asp Ser Glu Cys Pro Leu Ser His Asp Gly Tyr
          35          40          45
Cys Leu His Asp Gly Val Cys Met Tyr Ile Glu Ala Leu Asp Lys Tyr
          50          55          60
Ala Cys Asn Cys Val Val Gly Tyr Ile Gly Glu Arg Cys Gln Tyr Arg
          65          70          75          80
Asp Leu Lys Trp Trp Glu Leu Arg Lys Ala Ala Ala Pro Ala Pro Asn
          85          90          95
Met Glu Asn Thr Thr Ser Gly Phe Leu Gly Pro Leu Leu Val Leu Gln
          100          105          110
Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser Leu
          115          120          125
Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Ala Pro Thr Cys
          130          135          140
Pro Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn His Ser Pro Thr Ser
          145          150          155          160

```

Sequence Listing.txt

Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg Arg Phe
165 170 175
Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu Val
180 185 190
Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu Leu Pro Gly
195 200 205
Thr Ser Thr Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr Ile Pro Ala
210 215 220
Gln Gly Thr Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro Ser Asp
225 230 235 240
Arg Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe Ala Arg
245 250 255
Phe Leu Trp Glu Trp Ala Ser Val Arg Phe Ser Trp Leu Ser Leu Leu
260 265 270
Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp Leu
275 280 285
Ser Val Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr Asn Ile
290 295 300
Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu Trp Val
305 310 315 320
Tyr Ile

<210> 116

<211> 966

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 116

atgggagggt	ggtcttccaa	acctcggaaa	ggcatgggga	cgaatctttc	tgttcccaat	60
cctctgggat	tctttcccga	tcaccagttg	gacggcggcc	gcatgaactc	tgattccgaa	120
tgcccgtgt	ctcatgacgg	ttactgcctg	catgatggcg	tatgcatgta	catcgaagct	180
ctggacaaat	acgcatgcaa	ctgtgttgta	ggttacatcg	gcgaacgttg	ccagtatcgc	240
gacctgaaat	ggtgggaact	gcgtaaggcg	gccgcccctg	caccgaacat	ggagaacaca	300
acatcaggat	tcctaggacc	cctgctcgtg	ttacaggcgg	ggtttttctt	gttgacaaga	360
atcctcacia	taccacagag	tctagactcg	tggtggactt	ctctcaattt	tctaggggga	420
gcaccacagt	gtcctggcca	aaattcgcag	tccccaacct	ccaatcactc	accaacctct	480
tgtcctccaa	tttgtcctgg	ctatcgctgg	atgtgtctgc	ggcgttttat	catattcctc	540
ttcatcctgc	tgctatgcct	catcttcttg	ttggttcttc	tggaactacca	aggtatgttg	600
cccgtttgtc	ctctacttcc	aggaacatca	accaccagca	cggggccatg	caagacctgc	660
acgattcctg	ctcgaggaac	ctctatgttt	ccctcttggt	gctgtacaaa	accttcggac	720
agaaactgca	cttgatttcc	catcccatca	tcctgggctt	tcgcaagatt	cctatgggag	780
tgggcctcag	tccgtttctc	ctggctcagt	ttactagtgc	catttgttca	gtggttcgta	840
gggctttccc	ccactgtttg	gctttcagtt	atatggatga	tgtggtattg	ggggccaagt	900
ctgtacaaca	tcttgagtcc	ctttttacct	ctattaccaa	ttttcttttg	tctttgggta	960
tacatt						966

Sequence Listing.txt

<210> 117

<211> 322

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 117

```

Met Gly Gly Trp Ser Ser Lys Pro Arg Lys Gly Met Gly Thr Asn Leu
 1          5          10          15
Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp His Gln Leu Asp Gly
          20          25          30
Gly Arg Met Asn Ser Asp Ser Glu Cys Pro Leu Ser His Asp Gly Tyr
          35          40          45
Cys Leu His Asp Gly Val Cys Met Tyr Ile Glu Ala Leu Asp Lys Tyr
          50          55          60
Ala Cys Asn Cys Val Val Gly Tyr Ile Gly Glu Arg Cys Gln Tyr Arg
          65          70          75          80
Asp Leu Lys Trp Trp Glu Leu Arg Lys Ala Ala Ala Pro Ala Pro Asn
          85          90          95
Met Glu Asn Thr Thr Ser Gly Phe Leu Gly Pro Leu Leu Val Leu Gln
          100          105          110
Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser Leu
          115          120          125
Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Ala Pro Thr Cys
          130          135          140
Pro Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn His Ser Pro Thr Ser
          145          150          155          160
Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg Arg Phe
          165          170          175
Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu Val
          180          185          190
Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu Leu Pro Gly
          195          200          205
Thr Ser Thr Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr Ile Pro Ala
          210          215          220
Arg Gly Thr Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro Ser Asp
          225          230          235          240
Arg Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe Ala Arg
          245          250          255
Phe Leu Trp Glu Trp Ala Ser Val Arg Phe Ser Trp Leu Ser Leu Leu
          260          265          270
Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp Leu
          275          280          285

```

Sequence Listing.txt

Ser Val Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr Asn Ile
290 295 300

Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu Trp Val
305 310 315 320

Tyr Ile

<210> 118

<211> 825

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 118

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atgggagggtt ggtcttccaa acctcggaaa ggcattgggga cgaatctttc tgttcccaat 60
cctctgggat tctttcccga tcaccagttg gacggcggcc gctggagcca cccgcagttc 120
gaaaaagcgg ccgcccctgc accgaacatg gagaacacaa catcaggatt cctaggacct 180
ctgctcgtgt tacaggcggg gtttttcttg ttgacaagaa tcctcacaat accacagagt 240
ctagactcgt ggtggacttc tctcaatttt ctagggggag caccacagtg tcctggccaa 300
aatcgcagtg ccccaacctc caatcactca ccaacctctt gtcttccaat ttgtcctggc 360
tatcgctgga tgtgtctgcg gcgttttatc atattcctct tcattcctgt gctatgcctc 420
atcttcttgt tggttcttct ggactaccaa ggtatgttgc ccgtttgtcc tctacttcca 480
ggaacatcaa ccaccagcac ggggccatgc aagacctgca cgattcctgc tcaaggaacc 540
tctatgtttc cctcttggtg ctgtacaaaa ccttcggacg gaaactgcac ttgtattccc 600
atcccacatc cctgggcttt cgcaagattc ctatgggagt gggcctcagt ccgtttctcc 660
tggctcagtt tactagtgcc atttgttcag tggttcgtag ggctttcccc cactgtttgg 720
ctttcagtta tatggatgat gtggtattgg gggccaagtc tgtacaacat cttgagtccc 780
tttttacctc tattaccaat tttcttttgt ctttgggtat acatt 825
```

<210> 119

<211> 275

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 119

Met Gly Gly Trp Ser Ser Lys Pro Arg Lys Gly Met Gly Thr Asn Leu
1 5 10 15

Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp His Gln Leu Asp Gly
20 25 30

Gly Arg Trp Ser His Pro Gln Phe Glu Lys Ala Ala Ala Pro Ala Pro
35 40 45

Asn Met Glu Asn Thr Thr Ser Gly Phe Leu Gly Pro Leu Leu Val Leu
50 55 60

Gln Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser
65 70 75 80

Leu Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Ala Pro Thr
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Sequence Listing.txt

85

90

95

Cys Pro Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn His Ser Pro Thr
 100 105 110
 Ser Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg Arg
 115 120 125
 Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu
 130 135 140
 Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu Leu Pro
 145 150 155 160
 Gly Thr Ser Thr Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr Ile Pro
 165 170 175
 Ala Gln Gly Thr Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro Ser
 180 185 190
 Asp Gly Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe Ala
 195 200 205
 Arg Phe Leu Trp Glu Trp Ala Ser Val Arg Phe Ser Trp Leu Ser Leu
 210 215 220
 Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp
 225 230 235 240
 Leu Ser Val Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr Asn
 245 250 255
 Ile Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu Trp
 260 265 270
 Val Tyr Ile
 275

<210> 120

<211> 825

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 120

```

atgggagggt ggtcttccaa acctcggaaa ggcattggga cgaatctttc tgttcccaat 60
cctctgggat tctttcccga tcaccagttg gacggcggcc gctggagcca cccgcagttc 120
gaaaaagcgg ccgcccctgc accgaacatg gagaacacaa catcaggatt cctaggaccc 180
ctgctcgtgt tacaggcggg gtttttcttg ttgacaagaa tcctcacaat accacagagt 240
ctagactcgt ggtggacttc tctcaatttt ctagggggag caccacagtg tcctggccaa 300
aatcgcagt cccaacctc caatcactca ccaacctctt gtcctccaat ttgtcctggc 360
tatcgctgga tgtgtctgcy gcgttttatc atattcctct tcatcctgct gctatgcctc 420
atcttcttgt tggttcttct ggactaccaa ggtatgttgc ccgtttgtcc tctacttcca 480
ggaacatcaa ccaccagcac ggggccatgc aagacctgca cgattcctgc tcgaggaacc 540
tctatgtttc cctcttggtg ctgtacaaaa ccttcggacg gaaactgcac ttgtattccc 600
atcccatcat cctgggcttt cgcaagattc ctatgggagt gggcctcagt ccgtttctcc 660
tggctcagtt tactagtgcc atttgttcag tggttcgtag ggctttcccc cactgtttgg 720
ctttcagtta tatggatgat gtggtattgg gggccaagtc tgtacaacat cttgagtccc 780
tttttacctc tattaccaat tttcttttgt ctttgggtat acatt 825

```

Sequence Listing.txt

<210> 121

<211> 275

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 121

Met Gly Gly Trp Ser Ser Lys Pro Arg Lys Gly Met Gly Thr Asn Leu
1 5 10 15

Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp His Gln Leu Asp Gly
20 25 30

Gly Arg Trp Ser His Pro Gln Phe Glu Lys Ala Ala Ala Pro Ala Pro
35 40 45

Asn Met Glu Asn Thr Thr Ser Gly Phe Leu Gly Pro Leu Leu Val Leu
50 55 60

Gln Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser
65 70 75 80

Leu Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Ala Pro Thr
85 90 95

Cys Pro Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn His Ser Pro Thr
100 105 110

Ser Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg Arg
115 120 125

Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu
130 135 140

Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu Leu Pro
145 150 155 160

Gly Thr Ser Thr Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr Ile Pro
165 170 175

Ala Arg Gly Thr Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro Ser
180 185 190

Asp Gly Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe Ala
195 200 205

Arg Phe Leu Trp Glu Trp Ala Ser Val Arg Phe Ser Trp Leu Ser Leu
210 215 220

Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp
225 230 235 240

Leu Ser Val Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr Asn
245 250 255

Ile Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu Trp
260 265 270

Sequence Listing.txt

Val Tyr Ile
275

<210> 122
<211> 825
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Artificially
synthesized sequence

<400> 122
atgggagggtt ggtcttccaa acctcggaaa ggcattgggga cgaatctttc tgttcccaat 60
cctctgggat tctttcccga tcaccagttg gacggcggcc gctggagcca cccgcagttc 120
gaaaaagcgg ccgcccctgc accgaacatg gagaacacaa catcaggatt cctaggacct 180
ctgctcgtgt tacaggcggg gtttttcttg ttgacaagaa tcctcacaat accacagagt 240
ctagactcgt ggtggacttc tctcaatttt ctagggggag caccacacgtg tcctggccaa 300
aattcgcagt ccccaacctc caatcactca ccaacctctt gtcctccaat ttgtcctggc 360
tatcgtctga tgtgtctgcg gcgttttatc atattcctct tcattcctgt gctatgcctc 420
atcttcttgt tggttcttct ggactaccaa ggtatgttgc ccgtttgtcc tctacttcca 480
ggaacatcaa ccaccagcac ggggccatgc aagacctgca cgattcctgc tcaaggaacc 540
tctatgtttc cctcttgttg ctgtacaaaa ccttcggaca gaaactgcac ttgtattccc 600
atcccatcat cctgggcttt cgcaagattc ctatgggagt gggcctcagt ccgtttctcc 660
tggctcagtt tactagtgcc atttggtcag tggttcgtag ggctttcccc cactgtttgg 720
ctttcagtta tatggatgat gtggtattgg gggccaagtc tgtacaacat cttgagtccc 780
tttttacctc tattaccaat tttcttttgt ctttgggtat acatt 825

<210> 123
<211> 275
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Artificially
synthesized sequence

<400> 123
Met Gly Gly Trp Ser Ser Lys Pro Arg Lys Gly Met Gly Thr Asn Leu
1 5 10 15
Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp His Gln Leu Asp Gly
20 25 30
Gly Arg Trp Ser His Pro Gln Phe Glu Lys Ala Ala Ala Pro Ala Pro
35 40 45
Asn Met Glu Asn Thr Thr Ser Gly Phe Leu Gly Pro Leu Leu Val Leu
50 55 60
Gln Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser
65 70 75 80
Leu Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Ala Pro Thr
85 90 95
Cys Pro Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn His Ser Pro Thr
100 105 110
Ser Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg Arg
115 120 125

Sequence Listing.txt

Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu
130 135 140
Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu Leu Pro
145 150 155 160
Gly Thr Ser Thr Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr Ile Pro
165 170 175
Ala Gln Gly Thr Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro Ser
180 185 190
Asp Arg Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe Ala
195 200 205
Arg Phe Leu Trp Glu Trp Ala Ser Val Arg Phe Ser Trp Leu Ser Leu
210 215 220
Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp
225 230 235 240
Leu Ser Val Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr Asn
245 250 255
Ile Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu Trp
260 265 270
Val Tyr Ile
275

<210> 124
<211> 825
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Artificially
synthesized sequence

<400> 124
atgggaggtt ggtcttccaa acctcggaaa ggcattggga cgaatctttc tgttcccaat 60
cctctgggat tctttcccga tcaccagtgt gacggcggcc gctggagcca cccgcagttc 120
gaaaaagcgg ccgcccctgc accgaacatg gagaacacaa catcaggatt cctaggacct 180
ctgctcgtgt tacaggcggg gtttttcttg ttgacaagaa tcctcacaat accacagagt 240
ctagactcgt ggtggacttc tctcaatttt ctagggggag caccacagtg tcctggccaa 300
aattcgcagt ccccaacctc caatcactca ccaacctctt gtcctccaat ttgtcctggc 360
tatcgtctga tgtgtctgcg gcgttttatc atattcctct tcatcctgct gctatgcctc 420
atcttcttgt tggttcttct ggactaccaa ggtatgttgc ccgtttgtcc tctacttcca 480
ggaacatcaa ccaccagcac ggggccatgc aagacctgca cgattcctgc tcgaggaacc 540
tctatgtttc cctcttggtg ctgtacaaaa ccttcggaca gaaactgcac ttgtattccc 600
atcccatcat cctgggcttt cgcaagattc ctatgggagt gggcctcagt ccgtttctcc 660
tggtcagtt tactagtgcc atttgttcag tggttcgtag ggctttcccc cactgtttgg 720
ctttcagtta tatggatgat gtggtattgg gggccaagtc tgtacaacat cttgagtccc 780
tttttacctc tattaccaat tttcttttgt ctttgggtat acatt 825

<210> 125
<211> 275
<212> PRT
<213> Artificial Sequence

Sequence Listing.txt

<220>

<223> Description of Artificial Sequence:Artificially
synthesized sequence

<400> 125

```

Met Gly Gly Trp Ser Ser Lys Pro Arg Lys Gly Met Gly Thr Asn Leu
 1          5          10          15
Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp His Gln Leu Asp Gly
          20          25          30
Gly Arg Trp Ser His Pro Gln Phe Glu Lys Ala Ala Ala Pro Ala Pro
          35          40          45
Asn Met Glu Asn Thr Thr Ser Gly Phe Leu Gly Pro Leu Leu Val Leu
 50          55          60
Gln Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser
 65          70          75          80
Leu Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Ala Pro Thr
          85          90          95
Cys Pro Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn His Ser Pro Thr
          100          105          110
Ser Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg Arg
          115          120          125
Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu
          130          135          140
Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu Leu Pro
          145          150          155          160
Gly Thr Ser Thr Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr Ile Pro
          165          170          175
Ala Arg Gly Thr Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro Ser
          180          185          190
Asp Arg Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe Ala
          195          200          205
Arg Phe Leu Trp Glu Trp Ala Ser Val Arg Phe Ser Trp Leu Ser Leu
          210          215          220
Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp
          225          230          235          240
Leu Ser Val Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr Asn
          245          250          255
Ile Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu Trp
          260          265          270
Val Tyr Ile
          275

```

<210> 126

<211> 1203

<212> DNA

Sequence Listing.txt

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 126

```

atgggaggtt ggtcttccaa acctcggaaa ggcattggga cgaatctttc tgttcccaat 60
cctctgggat tctttcccga tcaccagttg gaccctgcgt tcggagccaa ctcaaacaat 120
ccagattggg gcggccgcgc gcaacacgat gaagccgtag acaacaaatt caacaaagaa 180
caacaaaacg cgttctatga gatcttacat ttacctaact taaacgaaga acaacgaaac 240
gccttcatcc aaagttaaaa agatgaccca agccaaagcg ctaacctttt agcagaagct 300
aaaaagctaa atgatgctca ggcgccgaaa gtagacaaca aattcaacaa agaacaacaa 360
aacgcgttct atgagatctt acatttacct aacttaaacg aagaacaacg aaacgccttc 420
atccaaagtt taaaagatga cccaagccaa agcgctaacc ttttagcaga agctaaaaag 480
ctaaatgatg ctccaggcgc gaaagcggcc gccctgcac cgaacatgga gaacacaaca 540
tcaggattcc taggaccctt gctcgtgtta caggcggggt ttttcttggt gacaagaatc 600
ctcacaaata cacagagtct agactcgtgg tggacttctc tcaattttct agggggagca 660
cccacgtgtc ctggccaaaa ttgcgagtc ccaacctcca atcactcacc aacctcttgt 720
cctccaattt gtcctggcta tcgctggatg tgtctgcggc gttttatcat attcctcttc 780
atcctgctgc tatgcctcat ctctctgttg gttcttcttg actaccaagg tatgttgccc 840
gtttgtcttc tacttcagg aacatcaacc accagcacgg ggccatgcaa gacctgcacg 900
attcctgctc aaggaacctc tatgtttccc tcttgttgct gtacaaaacc ttcggacgga 960
aactgcactt gtattcccat cccatcatcc tgggctttcg caagattcct atgggagtgg 1020
gcctcagtcg gtttctctg gctcagttta ctagtgccat ttgttcagtg gttcgtaggg 1080
ctttcccca ctggttggtt ttcagttata ttgatgatgt ggtattgggg gccaaagtctg 1140
tacaacatct tgagtccctt tttacctcta ttaccaattt tcttttgtct ttgggtatac 1200
att 1203

```

<210> 127

<211> 401

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 127

```

Met Gly Gly Trp Ser Ser Lys Pro Arg Lys Gly Met Gly Thr Asn Leu
 1          5          10          15
Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp His Gln Leu Asp Pro
          20          25          30
Ala Phe Gly Ala Asn Ser Asn Asn Pro Asp Trp Gly Gly Arg Ala Gln
          35          40          45
His Asp Glu Ala Val Asp Asn Lys Phe Asn Lys Glu Gln Gln Asn Ala
          50          55          60
Phe Tyr Glu Ile Leu His Leu Pro Asn Leu Asn Glu Glu Gln Arg Asn
          65          70          75          80
Ala Phe Ile Gln Ser Leu Lys Asp Asp Pro Ser Gln Ser Ala Asn Leu
          85          90          95
Leu Ala Glu Ala Lys Lys Leu Asn Asp Ala Gln Ala Pro Lys Val Asp
          100          105          110
Asn Lys Phe Asn Lys Glu Gln Gln Asn Ala Phe Tyr Glu Ile Leu His
          115          120          125

```

Sequence Listing.txt

```

Leu Pro Asn Leu Asn Glu Glu Gln Arg Asn Ala Phe Ile Gln Ser Leu
130      135      140
Lys Asp Asp Pro Ser Gln Ser Ala Asn Leu Leu Ala Glu Ala Lys Lys
145      150      155      160
Leu Asn Asp Ala Gln Ala Pro Lys Ala Ala Ala Pro Ala Pro Asn Met
165      170      175
Glu Asn Thr Thr Ser Gly Phe Leu Gly Pro Leu Leu Val Leu Gln Ala
180      185      190
Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser Leu Asp
195      200      205
Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Ala Pro Thr Cys Pro
210      215      220
Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn His Ser Pro Thr Ser Cys
225      230      235      240
Pro Pro Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg Arg Phe Ile
245      250      255
Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu Val Leu
260      265      270
Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu Leu Pro Gly Thr
275      280      285
Ser Thr Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr Ile Pro Ala Gln
290      295      300
Gly Thr Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro Ser Asp Gly
305      310      315      320
Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe Ala Arg Phe
325      330      335
Leu Trp Glu Trp Ala Ser Val Arg Phe Ser Trp Leu Ser Leu Leu Val
340      345      350
Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp Leu Ser
355      360      365
Val Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr Asn Ile Leu
370      375      380
Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu Trp Val Tyr
385      390      395      400
Ile

```

<210> 128

<211> 1203

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially

Sequence Listing.txt

synthesized sequence

```
<400> 128
atgggagggtt ggtcttccaa acctcggaaa ggcattgggga cgaatctttc tgttcccaat 60
cctctgggat tctttcccga tcaccagttg gaccctgcgt tcggagccaa ctcaaacaat 120
ccagattggg gcggccgcgc gcaacacgat gaagccgtag acaacaaatt caacaaagaa 180
caacaaaacg cgttctatga gatcttacat ttacctaaact taaacgaaga acaacgaaac 240
gccttcaccc aaagttaaaa agatgaccca agccaaagcg ctaacctttt agcagaagct 300
aaaaagctaa atgatgctca ggcgcgaaa gtagacaaca aattcaacaa agaacaacaa 360
aacgcgttct atgagatctt acatttacct aacttaaacg aagaacaacg aaacgccttc 420
atccaaagtt taaaagatga cccaagccaa agcgctaacc ttttagcaga agctaaaaag 480
ctaaatgatg ctcaggcgcc gaaagcggcc gccctgcac cgaacatgga gaacacaaca 540
tcaggattcc taggaccctt gctcgtgta caggcggggt tttcttgggt gacaagaatc 600
ctcacaatac cacagagtct agactcgtgg tggacttctc tcaattttct agggggagca 660
cccacgtgtc ctggccaaaa ttcgcagtcc ccaacctcca atcactcacc aacctcttgt 720
cctccaattt gtcctggcta tcgctggatg tgtctgcggc gttttatcat attcctcttc 780
atcctgctgc tatgcctcat ctcttgttg gttcttctgg actaccaagg tatgttgccc 840
gtttgtcctc tacttccagg aacatcaacc accagcacgg ggccatgcaa gacctgcacg 900
attcctgtc gaggaacctc tatgtttccc tcttgttgct gtacaaaacc ttcggacgga 960
aactgcactt gtattcccat cccatcatcc tgggctttcg caagattcct atgggagtg 1020
gcctcagtc gtttctctg gctcagttta ctagtgccat ttgttcagtg gttcgtaggg 1080
ctttcccca ctgtttggct ttcagttata tggatgatgt ggtattgggg gccaaagtctg 1140
tacaacatct tgagtcctt tttacctcta ttaccaattt tctttgtct ttgggtatac 1200
att 1203
```

<210> 129

<211> 401

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 129

```
Met Gly Gly Trp Ser Ser Lys Pro Arg Lys Gly Met Gly Thr Asn Leu
1 5 10 15
Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp His Gln Leu Asp Pro
20 25 30
Ala Phe Gly Ala Asn Ser Asn Asn Pro Asp Trp Gly Gly Arg Ala Gln
35 40 45
His Asp Glu Ala Val Asp Asn Lys Phe Asn Lys Glu Gln Gln Asn Ala
50 55 60
Phe Tyr Glu Ile Leu His Leu Pro Asn Leu Asn Glu Glu Gln Arg Asn
65 70 75 80
Ala Phe Ile Gln Ser Leu Lys Asp Asp Pro Ser Gln Ser Ala Asn Leu
85 90 95
Leu Ala Glu Ala Lys Lys Leu Asn Asp Ala Gln Ala Pro Lys Val Asp
100 105 110
Asn Lys Phe Asn Lys Glu Gln Gln Asn Ala Phe Tyr Glu Ile Leu His
115 120 125
Leu Pro Asn Leu Asn Glu Glu Gln Arg Asn Ala Phe Ile Gln Ser Leu
130 135 140
```

Sequence Listing.txt

Lys Asp Asp Pro Ser Gln Ser Ala Asn Leu Leu Ala Glu Ala Lys Lys
 145 150 155 160
 Leu Asn Asp Ala Gln Ala Pro Lys Ala Ala Ala Pro Ala Pro Asn Met
 165 170 175
 Glu Asn Thr Thr Ser Gly Phe Leu Gly Pro Leu Leu Val Leu Gln Ala
 180 185 190
 Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser Leu Asp
 195 200 205
 Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Ala Pro Thr Cys Pro
 210 215 220
 Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn His Ser Pro Thr Ser Cys
 225 230 235 240
 Pro Pro Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg Arg Phe Ile
 245 250 255
 Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu Val Leu
 260 265 270
 Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu Leu Pro Gly Thr
 275 280 285
 Ser Thr Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr Ile Pro Ala Arg
 290 295 300
 Gly Thr Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro Ser Asp Gly
 305 310 315 320
 Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe Ala Arg Phe
 325 330 335
 Leu Trp Glu Trp Ala Ser Val Arg Phe Ser Trp Leu Ser Leu Leu Val
 340 345 350
 Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp Leu Ser
 355 360 365
 Val Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr Asn Ile Leu
 370 375 380
 Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu Trp Val Tyr
 385 390 395 400
 Ile

<210> 130

<211> 1203

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
 synthesized sequence

<400> 130

atgggaggtt ggtcttccaa acctcggaaa ggcattgggga cgaatctttc tgttcccaat 60

Sequence Listing.txt

```

cctctgggat tctttccgga tcaccagttg gaccctgcgt tcggagccaa ctcaaacaat 120
ccagattggg gcggccgcgc gcaacacgat gaagccgtag acaacaaatt caacaaagaa 180
caacaaaacg cgttctatga gatcttacat ttacctaaact taaacgaaga acaacgaaac 240
gccttcatcc aaagttttaa agatgaccca agccaaagcg ctaacctttt agcagaagct 300
aaaaagctaa atgatgtcta ggcgccgaaa gtagacaaca aattcaacaa agaacaacaa 360
aacgcgttct atgagatcct acatttacct aacttaaacg aagaacaacg aaacgccttc 420
atccaaagtt taaaagatga cccaagccaa agcgctaacc ttttagcaga agctaaaaag 480
ctaaatgatg ctcaggcgcc gaaagcggcc gcccctgcac cgaacatgga gaacacaaca 540
tcaggattcc taggacctct gctcgtgta caggcggggt ttttcttgtt gacaagaatc 600
ctcacaatac cacagagtct agactcgtgg tggacttctc tcaattttct agggggagca 660
cccacgtgtc ctggccaaaa ttcgcagtcc ccaacctcca atcactcacc aacctcttgt 720
cctccaattt gtcctggcta tcgctggatg tgtctgcggc gttttatcat attcctcttc 780
atcctgtctg tatgcctcat ctcttgttg gttcttctgg actaccaagg tatgttgccc 840
gtttgtcctc tacttccagg aacatcaacc accagcacgg ggccatgcaa gacctgcacg 900
attcctgtct aaggaacctc tatgtttccc tcttgttgct gtacaaaacc ttcggacaga 960
aactgcactt gtattcccat cccatcatcc tgggctttcg caagattcct atgggagtgg 1020
gcctcagtcc gtttctcctg gctcagttta ctagtgccat ttgttcagtg gttcgtaggg 1080
ctttcccca ctgtttggct ttcagttata tggatgatgt ggtattgggg gccaaagtctg 1140
tacaacatct tgagtcctct tttacctcta ttaccaattt tcttttgtct ttgggtatac 1200
att

```

<210> 131

<211> 401

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 131

```

Met Gly Gly Trp Ser Ser Lys Pro Arg Lys Gly Met Gly Thr Asn Leu
 1          5          10          15
Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp His Gln Leu Asp Pro
          20          25          30
Ala Phe Gly Ala Asn Ser Asn Asn Pro Asp Trp Gly Gly Arg Ala Gln
          35          40          45
His Asp Glu Ala Val Asp Asn Lys Phe Asn Lys Glu Gln Gln Asn Ala
          50          55          60
Phe Tyr Glu Ile Leu His Leu Pro Asn Leu Asn Glu Glu Gln Arg Asn
          65          70          75          80
Ala Phe Ile Gln Ser Leu Lys Asp Asp Pro Ser Gln Ser Ala Asn Leu
          85          90          95
Leu Ala Glu Ala Lys Lys Leu Asn Asp Ala Gln Ala Pro Lys Val Asp
          100          105          110
Asn Lys Phe Asn Lys Glu Gln Gln Asn Ala Phe Tyr Glu Ile Leu His
          115          120          125
Leu Pro Asn Leu Asn Glu Glu Gln Arg Asn Ala Phe Ile Gln Ser Leu
          130          135          140
Lys Asp Asp Pro Ser Gln Ser Ala Asn Leu Leu Ala Glu Ala Lys Lys
          145          150          155          160
Leu Asn Asp Ala Gln Ala Pro Lys Ala Ala Ala Pro Ala Pro Asn Met

```

Sequence Listing.txt

165
 Glu Asn Thr Thr Ser Gly Phe Leu Gly Pro Leu Leu Val Leu Gln Ala
 180 185 190
 Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser Leu Asp
 195 200 205
 Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Ala Pro Thr Cys Pro
 210 215 220
 Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn His Ser Pro Thr Ser Cys
 225 230 235 240
 Pro Pro Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg Arg Phe Ile
 245 250 255
 Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu Val Leu
 260 265 270
 Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu Leu Pro Gly Thr
 275 280 285
 Ser Thr Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr Ile Pro Ala Gln
 290 295 300
 Gly Thr Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro Ser Asp Arg
 305 310 315 320
 Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe Ala Arg Phe
 325 330 335
 Leu Trp Glu Trp Ala Ser Val Arg Phe Ser Trp Leu Ser Leu Leu Val
 340 345 350
 Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp Leu Ser
 355 360 365
 Val Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr Asn Ile Leu
 370 375 380
 Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu Trp Val Tyr
 385 390 395 400
 Ile

<210> 132

<211> 1203

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 132

```

atgggagggtt ggtcttccaa acctcggaaa ggcattgggga cgaatctttc tgttcccaat 60
cctctgggat tctttcccga tcaccagttg gaccctgcgt tcggagccaa ctcaaacaat 120
ccagattggg gcggccgcgc gcaacacgat gaagccgtag acaacaaatt caacaaagaa 180
caacaaaacg cgttctatga gatcttacat ttacctaaact taaacgaaga acaacgaaac 240
gccttcatcc aaagttaaaa agatgaccca agccaaagcg ctaacctttt agcagaagct 300

```


Sequence Listing.txt

```

aaaaagctaa atgatgctca ggcgccgaaa gtagacaaca aattcaacaa agaacaacaa 360
aacgcgttct atgagatctt acattttacct aacttaaacg aagaacaacg aaacgccttc 420
atccaaagtt taaaagatga cccaagccaa agcgctaacc ttttagcaga agctaaaaag 480
ctaaatgatg ctacaggcgcc gaaagcggcc gccctgcac cgaacatgga gaacacaaca 540
tcaggattcc taggacccct gctcgtgtta caggcggggt ttttcttgtt gacaagaatc 600
ctcacataac cacagagtct agactcgtgg tggacttctc tcaattttct agggggagca 660
cccacgtgtc ctggccaaaa ttcgcagtcc ccaacctcca atcactcacc aacctcttgt 720
cctccaattt gtcctggcta tcgctggatg tgtctgcggc gttttatcat attcctcttc 780
atcctgctgc tatgcctcat ctcttgttg gttcttctgg actaccaagg tatgttgccc 840
gtttgtcttc tacttccagg aacatcaacc accagcacgg ggccatgcaa gacctgcacg 900
attcctgctc gaggaacctc tatgtttccc tcttggtgct gtacaaaacc ttcggacaga 960
aactgcactt gtattcccat cccatcatcc tgggcttctg caagattcct atggggagtgg 1020
gcctcagtcg gtttctcctg gctcagttta ctagtgccat ttgttcagtg gttcgtaggg 1080
ctttccccc ctggttggtt ttcagttata tggatgatgt ggtattggg gccaagtctg 1140
tacaacatct tgagtccctt tttacctcta ttaccaattt tcttttgtct ttgggtatac 1200
att
1203

```

<210> 133

<211> 401

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 133

```

Met Gly Gly Trp Ser Ser Lys Pro Arg Lys Gly Met Gly Thr Asn Leu
 1          5          10          15
Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp His Gln Leu Asp Pro
          20          25          30
Ala Phe Gly Ala Asn Ser Asn Asn Pro Asp Trp Gly Gly Arg Ala Gln
 35          40          45
His Asp Glu Ala Val Asp Asn Lys Phe Asn Lys Glu Gln Gln Asn Ala
 50          55          60
Phe Tyr Glu Ile Leu His Leu Pro Asn Leu Asn Glu Glu Gln Arg Asn
 65          70          75          80
Ala Phe Ile Gln Ser Leu Lys Asp Asp Pro Ser Gln Ser Ala Asn Leu
          85          90          95
Leu Ala Glu Ala Lys Lys Leu Asn Asp Ala Gln Ala Pro Lys Val Asp
 100          105          110
Asn Lys Phe Asn Lys Glu Gln Gln Asn Ala Phe Tyr Glu Ile Leu His
 115          120          125
Leu Pro Asn Leu Asn Glu Glu Gln Arg Asn Ala Phe Ile Gln Ser Leu
 130          135          140
Lys Asp Asp Pro Ser Gln Ser Ala Asn Leu Leu Ala Glu Ala Lys Lys
 145          150          155          160
Leu Asn Asp Ala Gln Ala Pro Lys Ala Ala Ala Pro Ala Pro Asn Met
          165          170          175
Glu Asn Thr Thr Ser Gly Phe Leu Gly Pro Leu Leu Val Leu Gln Ala
 180          185          190

```

Sequence Listing.txt

Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser Leu Asp
195 200 205
Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Ala Pro Thr Cys Pro
210 215 220
Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn His Ser Pro Thr Ser Cys
225 230 235 240
Pro Pro Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg Arg Phe Ile
245 250 255
Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu Val Leu
260 265 270
Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu Leu Pro Gly Thr
275 280 285
Ser Thr Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr Ile Pro Ala Arg
290 295 300
Gly Thr Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro Ser Asp Arg
305 310 315 320
Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe Ala Arg Phe
325 330 335
Leu Trp Glu Trp Ala Ser Val Arg Phe Ser Trp Leu Ser Leu Leu Val
340 345 350
Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp Leu Ser
355 360 365
Val Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr Asn Ile Leu
370 375 380
Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu Trp Val Tyr
385 390 395 400
Ile

<210> 134

<211> 1002

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
synthesized sequence

<400> 134

atgggaggtt	ggtcttccaa	acctcggaaa	ggcatgggga	cgaatctttc	tgttcccaat	60
cctctgggat	tctttcccga	tcaccagtgt	gaccctgcgt	tcggagccaa	ctcaaacaat	120
ccagattggg	gcggccgcat	gaactctgat	tccgaatgcc	cgctgtctca	tgacggttac	180
tgcctgcatg	atggcgtatg	catgtacatc	gaagctcttg	acaaatacgc	atgcaactgt	240
gttgtaggtt	acatcggcga	acgttgccag	tatcgcgacc	tgaaatgggtg	ggaactgcgt	300
aaggcggccg	cccctgcacc	gaacatggag	aacacaacat	caggattcct	aggaccctctg	360
ctcgtgttac	aggcgggggt	tttcttggtg	acaagaatcc	tcacaatacc	acagagtcta	420
gactcgtggg	ggacttctct	caattttcta	gggggagcac	ccacgtgtcc	tggccaaaat	480
tcgcagtccc	caacctccaa	tcactcacca	acctcttgtc	ctccaatttg	tcctggctat	540

Sequence Listing.txt

```

cgctggatgt gtctgcggcg ttttatcata ttcctcttca tcctgctgct atgcctcatc 600
ttcttggttg ttcttctgga ctaccaaggt atgttgcccg tttgtcctct acttccagga 660
acatcaacca ccagcacggg gccatgcaag acctgcacga ttcctgctca aggaacctct 720
atgtttccct cttgttgctg tacaaaacct tcggacggaa actgcacttg tattcccatc 780
ccatcatcct gggctttcgc aagattccta tgggagtggg cctcagtcgg tttctcctgg 840
ctcagtttac tagtgccatt tgttcagtgg ttcgtagggc tttccccac tgtttggtt 900
tcagttatat ggatgatgtg gtattggggg ccaagtctgt acaacatctt gagtcccttt 960
ttaccictat taccaatttt cttttgtctt tgggtataca tt 1002

```

<210> 135

<211> 334

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
synthesized sequence

<400> 135

```

Met Gly Gly Trp Ser Ser Lys Pro Arg Lys Gly Met Gly Thr Asn Leu
 1          5          10          15
Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp His Gln Leu Asp Pro
          20          25          30
Ala Phe Gly Ala Asn Ser Asn Asn Pro Asp Trp Gly Gly Arg Met Asn
          35          40          45
Ser Asp Ser Glu Cys Pro Leu Ser His Asp Gly Tyr Cys Leu His Asp
          50          55          60
Gly Val Cys Met Tyr Ile Glu Ala Leu Asp Lys Tyr Ala Cys Asn Cys
          65          70          75          80
Val Val Gly Tyr Ile Gly Glu Arg Cys Gln Tyr Arg Asp Leu Lys Trp
          85          90          95
Trp Glu Leu Arg Lys Ala Ala Ala Pro Ala Pro Asn Met Glu Asn Thr
          100          105          110
Thr Ser Gly Phe Leu Gly Pro Leu Val Leu Gln Ala Gly Phe Phe
          115          120          125
Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser Leu Asp Ser Trp Trp
          130          135          140
Thr Ser Leu Asn Phe Leu Gly Gly Ala Pro Thr Cys Pro Gly Gln Asn
          145          150          155          160
Ser Gln Ser Pro Thr Ser Asn His Ser Pro Thr Ser Cys Pro Pro Ile
          165          170          175
Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg Arg Phe Ile Ile Phe Leu
          180          185          190
Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu Val Leu Leu Asp Tyr
          195          200          205
Gln Gly Met Leu Pro Val Cys Pro Leu Leu Pro Gly Thr Ser Thr Thr
          210          215          220
Ser Thr Gly Pro Cys Lys Thr Cys Thr Ile Pro Ala Gln Gly Thr Ser

```

Sequence Listing.txt															
225					230					235					240
Met	Phe	Pro	Ser	Cys 245	Cys	Cys	Thr	Lys	Pro 250	Ser	Asp	Gly	Asn	Cys 255	Thr
Cys	Ile	Pro	Ile 260	Pro	Ser	Ser	Trp	Ala 265	Phe	Ala	Arg	Phe	Leu 270	Trp	Glu
Trp	Ala	Ser 275	Val	Arg	Phe	Ser	Trp 280	Leu	Ser	Leu	Leu	Val 285	Pro	Phe	Val
Gln	Trp 290	Phe	Val	Gly	Leu	Ser 295	Pro	Thr	Val	Trp	Leu 300	Ser	Val	Ile	Trp
Met 305	Met	Trp	Tyr	Trp	Gly 310	Pro	Ser	Leu	Tyr	Asn 315	Ile	Leu	Ser	Pro	Phe 320
Leu	Pro	Leu	Leu	Pro 325	Ile	Phe	Phe	Cys	Leu 330	Trp	Val	Tyr	Ile		

<210> 136
<211> 1002
<212> DNA
<213> Artificial Sequence

```
<220>
<223> Description of Artificial Sequence:Artificially
synthesized sequence
```

<400> 136							
atgggaggtt	ggtcttccaa	acctcggaaa	ggcatgggga	cgaatctttc	tgttcccaat		60
ccctctgggat	tctttcccga	tcaccagttg	gaccctgcgt	tcggagccaa	ctcaaacaat		120
ccagattggg	gcggccgcgt	gaactctgat	tccgaatgcc	cgctgtctca	tgacggttac		180
tgccctgatg	atggcgtatg	catgtacatc	gaagctctgg	acaaatacgc	atgcaactgt		240
gttgtaggtg	acatgcgcga	acgttgccag	tatcgcgac	tgaaatggtg	ggaactgcgt		300
aaggcggccg	cccctgcacc	gaacatggag	aacacaacat	caggattcct	aggacccctg		360
ctcgtgttac	aggcgggggt	tttcttgttg	acaagaatcc	tcacaatacc	acagagtcta		420
gactcgtggt	ggactttctt	caatttttcta	ggggggagcac	ccacgtgtcc	tggccaaaat		480
tcgcagtccc	caacctccaa	tcactcacca	acctctttgtc	ctccaatttg	tcctggctat		540
cgctggatgt	gtctgcggcg	ttttatcata	ttcctcttca	tcctgtctgt	atgcctcatc		600
ttcttgttgg	ttctttctgga	ctaccaaggt	atgttgcccg	tttgtcctct	acttcagga		660
acatcaacca	ccagcacggg	gccatgcaag	acctgcacga	ttcctgtctg	aggaacctct		720
atgtttccct	cttgttgctg	tacaaaacct	tcggacggaa	actgcacttg	tattcccatac		780
ccatcatctt	gggctttcgc	aagattccta	tgggagtggg	cctcagtcgg	tttctccttg		840
ctcagtttac	tagtgccatt	tgtttcagtgg	ctcgtagggc	tttccccac	tgtttggtt		900
tcagttatat	ggatgatgtg	gtattggggg	ccaagtctgt	acaacatctt	gagtcctctt		960
ttacctctat	taccaatttt	cttttgcctt	tgggtataca	tt			1002

```
<210> 137
<211> 334
<212> PRT
<213> Artificial Sequence
```

```
<220>
<223> Description of Artificial Sequence:Artificially
        synthesized sequence
```

<400> 137
Met Gly Gly Trp Ser Ser Lys Pro Arg Lys Gly Met Gly Thr Asn Leu
1 5 10 15

Sequence Listing.txt

Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp His Gln Leu Asp Pro
 20 25 30
 Ala Phe Gly Ala Asn Ser Asn Asn Pro Asp Trp Gly Gly Arg Met Asn
 35 40 45
 Ser Asp Ser Glu Cys Pro Leu Ser His Asp Gly Tyr Cys Leu His Asp
 50 55 60
 Gly Val Cys Met Tyr Ile Glu Ala Leu Asp Lys Tyr Ala Cys Asn Cys
 65 70 75 80
 Val Val Gly Tyr Ile Gly Glu Arg Cys Gln Tyr Arg Asp Leu Lys Trp
 85 90 95
 Trp Glu Leu Arg Lys Ala Ala Ala Pro Ala Pro Asn Met Glu Asn Thr
 100 105 110
 Thr Ser Gly Phe Leu Gly Pro Leu Leu Val Leu Gln Ala Gly Phe Phe
 115 120 125
 Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser Leu Asp Ser Trp Trp
 130 135 140
 Thr Ser Leu Asn Phe Leu Gly Gly Ala Pro Thr Cys Pro Gly Gln Asn
 145 150 155 160
 Ser Gln Ser Pro Thr Ser Asn His Ser Pro Thr Ser Cys Pro Pro Ile
 165 170 175
 Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg Arg Phe Ile Ile Phe Leu
 180 185 190
 Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu Val Leu Leu Asp Tyr
 195 200 205
 Gln Gly Met Leu Pro Val Cys Pro Leu Leu Pro Gly Thr Ser Thr Thr
 210 215 220
 Ser Thr Gly Pro Cys Lys Thr Cys Thr Ile Pro Ala Arg Gly Thr Ser
 225 230 235 240
 Met Phe Pro Ser Cys Cys Cys Thr Lys Pro Ser Asp Gly Asn Cys Thr
 245 250 255
 Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe Ala Arg Phe Leu Trp Glu
 260 265 270
 Trp Ala Ser Val Arg Phe Ser Trp Leu Ser Leu Leu Val Pro Phe Val
 275 280 285
 Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp Leu Ser Val Ile Trp
 290 295 300
 Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr Asn Ile Leu Ser Pro Phe
 305 310 315 320
 Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu Trp Val Tyr Ile
 325 330

<210> 138
 <211> 1002

Sequence Listing.txt

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 138

```

atgggagggtt ggtcttccaa acctcggaaa ggcattgggga cgaatctttc tgttcccaat 60
cctctgggat tctttcccga tcaccagttg gaccctgcgt tcggagccaa ctcaaacaat 120
ccagattggg gcggccgcat gaactctgat tccgaatgcc cgctgtctca tgacggttac 180
tgcctgcatg atggcgatg catgtacatc gaagctctgg acaaatacgc atgcaactgt 240
gttgtaggtt acatcggcga acgttgccag tatcgcgacc tgaaatgggt ggaactgcgt 300
aaggcggccg cccctgcacc gaacatggag aacacaacat caggattcct aggaccctg 360
ctcgtgttac aggcgggggt tttcttggtg acaagaatcc tcacaatacc acagagtcta 420
gactcgtggt ggacttctct caattttcta gggggagcac ccacgtgtcc tggccaaaat 480
tcgcagtcct caacctccaa tcactcacca acctcttgct ctccaatttg tcctggctat 540
cgctggatgt gtctgcggcg ttttatcata ttcctcttca tcctgctgct atgcctcatc 600
ttcttggttg ttcttctgga ctaccaaggt atgttgcccg tttgtcctct acttccagga 660
acatcaacca ccagcacggg gccatgcaag acctgcacga ttcctgctca aggaacctct 720
atgtttccct cttgttgctg taaaaaacct tcggacagaa actgcacttg tattcccatc 780
ccatcatcct gggctttcgc aagattccta tgggagtggg cctcagtcct tttctcctgg 840
ctcagtttac tagtgccatt tgttcagttg ttcgtagggc tttccccac tgtttggtt 900
tcagttatat ggatgatgtg gtattggggg ccaagtctgt acaacatctt gagtcccttt 960
ttacctctat taccaatttt ctttgtctt tgggtatata tt 1002

```

<210> 139

<211> 334

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 139

```

Met Gly Gly Trp Ser Ser Lys Pro Arg Lys Gly Met Gly Thr Asn Leu
 1          5          10          15
Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp His Gln Leu Asp Pro
          20          25          30
Ala Phe Gly Ala Asn Ser Asn Asn Pro Asp Trp Gly Gly Arg Met Asn
          35          40          45
Ser Asp Ser Glu Cys Pro Leu Ser His Asp Gly Tyr Cys Leu His Asp
          50          55          60
Gly Val Cys Met Tyr Ile Glu Ala Leu Asp Lys Tyr Ala Cys Asn Cys
          65          70          75          80
Val Val Gly Tyr Ile Gly Glu Arg Cys Gln Tyr Arg Asp Leu Lys Trp
          85          90          95
Trp Glu Leu Arg Lys Ala Ala Ala Pro Ala Pro Asn Met Glu Asn Thr
          100          105          110
Thr Ser Gly Phe Leu Gly Pro Leu Leu Val Leu Gln Ala Gly Phe Phe
          115          120          125
Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser Leu Asp Ser Trp Trp
          130          135          140

```

Sequence Listing.txt

Thr Ser Leu Asn Phe Leu Gly Gly Ala Pro Thr Cys Pro Gly Gln Asn
145 150 155 160

Ser Gln Ser Pro Thr Ser Asn His Ser Pro Thr Ser Cys Pro Pro Ile
165 170 175

Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg Arg Phe Ile Ile Phe Leu
180 185 190

Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu Val Leu Leu Asp Tyr
195 200 205

Gln Gly Met Leu Pro Val Cys Pro Leu Leu Pro Gly Thr Ser Thr Thr
210 215 220

Ser Thr Gly Pro Cys Lys Thr Cys Thr Ile Pro Ala Gln Gly Thr Ser
225 230 235 240

Met Phe Pro Ser Cys Cys Cys Thr Lys Pro Ser Asp Arg Asn Cys Thr
245 250 255

Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe Ala Arg Phe Leu Trp Glu
260 265 270

Trp Ala Ser Val Arg Phe Ser Trp Leu Ser Leu Leu Val Pro Phe Val
275 280 285

Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp Leu Ser Val Ile Trp
290 295 300

Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr Asn Ile Leu Ser Pro Phe
305 310 315 320

Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu Trp Val Tyr Ile
325 330

<210> 140

<211> 1002

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
synthesized sequence

<400> 140

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atgggaggtt ggtcttccaa acctcggaaa ggcattggga cgaatctttc tgttcccaat 60
cctctgggat tctttcccga tcaccagttg gaccctgcgt tcggagccaa ctcaaacaat 120
ccagattggg gcggccgcat gaactctgat tccgaatgcc cgctgtctca tgacggttac 180
tgcctgcatg atggcgtatg catgtacatc gaagctctgg acaaatacgc atgcaactgt 240
gttgtagggt acatcggcga acgttgccag tatcgcgacc tgaaatggtg ggaactgcgt 300
aaggcggccg cccctgcacc gaacatggag aacacaacat caggattcct aggaccctg 360
ctcgtgttac aggcgggggt tttcttggtg acaagaatcc tcacaatacc acagagtcta 420
gactcgtggt ggacttctct caattttcta gggggagcac ccacgtgtcc tggccaaaat 480
tcgcagtccc caacctccaa tcactcacca acctctgtc ctccaatttg tcctggctat 540
cgctggatgt gtctgcggcg ttttatcata ttctcttca tcctgctgct atgcctcatc 600
ttcttggttg ttctctgga ctaccaaggt atgttgcccg tttgtcctct acttccagga 660
acatcaacca ccagcacggg gccatgcaag acctgcacga ttctgctcg aggaacctct 720
atgtttccct cttgttgctg tacaaaacct tcggacagaa actgcacttg tattcccatc 780
ccatcatcct gggctttcgc aagattccta tgggagtggg cctcagtcgg tttctcctgg 840
ctcagtttac tagtgccatt tgttcagtgg ttcgtagggc tttcccccac tgtttgctt 900
```

Sequence Listing.txt

tcagttatat ggatgatgtg gatttggggg ccaagtctgt acaacatctt gagtcccttt 960
 ttacctctat taccaatttt cttttgtctt tgggtataca tt 1002

<210> 141

<211> 334

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
 synthesized sequence

<400> 141

Met Gly Gly Trp Ser Ser Lys Pro Arg Lys Gly Met Gly Thr Asn Leu
 1 5 10 15

Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp His Gln Leu Asp Pro
 20 25 30

Ala Phe Gly Ala Asn Ser Asn Asn Pro Asp Trp Gly Gly Arg Met Asn
 35 40 45

Ser Asp Ser Glu Cys Pro Leu Ser His Asp Gly Tyr Cys Leu His Asp
 50 55 60

Gly Val Cys Met Tyr Ile Glu Ala Leu Asp Lys Tyr Ala Cys Asn Cys
 65 70 75 80

Val Val Gly Tyr Ile Gly Glu Arg Cys Gln Tyr Arg Asp Leu Lys Trp
 85 90 95

Trp Glu Leu Arg Lys Ala Ala Ala Pro Ala Pro Asn Met Glu Asn Thr
 100 105 110

Thr Ser Gly Phe Leu Gly Pro Leu Leu Val Leu Gln Ala Gly Phe Phe
 115 120 125

Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser Leu Asp Ser Trp Trp
 130 135 140

Thr Ser Leu Asn Phe Leu Gly Gly Ala Pro Thr Cys Pro Gly Gln Asn
 145 150 155 160

Ser Gln Ser Pro Thr Ser Asn His Ser Pro Thr Ser Cys Pro Pro Ile
 165 170 175

Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg Arg Phe Ile Ile Phe Leu
 180 185 190

Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu Val Leu Leu Asp Tyr
 195 200 205

Gln Gly Met Leu Pro Val Cys Pro Leu Leu Pro Gly Thr Ser Thr Thr
 210 215 220

Ser Thr Gly Pro Cys Lys Thr Cys Thr Ile Pro Ala Arg Gly Thr Ser
 225 230 235 240

Met Phe Pro Ser Cys Cys Cys Thr Lys Pro Ser Asp Arg Asn Cys Thr
 245 250 255

Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe Ala Arg Phe Leu Trp Glu
 Page 100

Sequence Listing.txt

260

265

270

Trp Ala Ser Val Arg Phe Ser Trp Leu Ser Leu Leu Val Pro Phe Val
 275 280 285

Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp Leu Ser Val Ile Trp
 290 295 300

Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr Asn Ile Leu Ser Pro Phe
 305 310 315 320

Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu Trp Val Tyr Ile
 325 330

<210> 142

<211> 861

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 142

```

atgggagggtt ggtcttccaa acctcggaaa ggcattggga cgaatctttc tgttcccaat 60
cctctgggat tctttcccga tcaccagttg gaccctgcgt tcggagccaa ctcaaacaat 120
ccagattggg gcggccgctg gagccaccg cagttcgaaa aagcggccgc ccctgcaccg 180
aacatggaga acacaacatc aggattccta ggacccctgc tcgtgttaca ggcgggggtt 240
ttcttgittg caagaatcct cacaatacca cagagtctag actcgtggtg gacttctctc 300
aattttctag ggggagcacc cacgtgtcct ggccaaaatt cgcagtcccc aacctccaat 360
cactcaccaa cctcttgctc tccaatttgt cctggctatc gctggatgtg tctgcggcgt 420
tttatcatat tcctcttcat cctgctgcta tgcctcatct tcttgttggt tcttctggac 480
taccaaggta tgttgcccgt ttgtcctcta cttccaggaa catcaaccac cagcacgggg 540
ccatgcaaga cctgcacgat tcctgctcaa ggaacctcta tgtttccctc ttggtgctgt 600
acaaaacctt cggacggaaa ctgcacttgt attcccatcc catcatcctg ggctttcgca 660
agattcctat gggagtgggc ctccagtcgt ttctcctggc tcagtttact agtgccattt 720
gttcagtggg tcgtagggct ttccccact gtttggtttt cagttatatg gatgatgtgg 780
tattgggggc caagtctgta caacatcttg agtccctttt tacctctatt accaattttt 840
ttttgtcttt gggatatacat t 861

```

<210> 143

<211> 287

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 143

Met Gly Gly Trp Ser Ser Lys Pro Arg Lys Gly Met Gly Thr Asn Leu
 1 5 10 15

Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp His Gln Leu Asp Pro
 20 25 30

Ala Phe Gly Ala Asn Ser Asn Asn Pro Asp Trp Gly Gly Arg Trp Ser
 35 40 45

His Pro Gln Phe Glu Lys Ala Ala Ala Pro Ala Pro Asn Met Glu Asn
 50 55 60

Sequence Listing.txt

Thr Thr Ser Gly Phe Leu Gly Pro Leu Leu Val Leu Gln Ala Gly Phe
65 70 75 80
Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser Leu Asp Ser Trp
85 90 95
Trp Thr Ser Leu Asn Phe Leu Gly Gly Ala Pro Thr Cys Pro Gly Gln
100 105 110
Asn Ser Gln Ser Pro Thr Ser Asn His Ser Pro Thr Ser Cys Pro Pro
115 120 125
Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg Arg Phe Ile Ile Phe
130 135 140
Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu Val Leu Leu Asp
145 150 155 160
Tyr Gln Gly Met Leu Pro Val Cys Pro Leu Leu Pro Gly Thr Ser Thr
165 170 175
Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr Ile Pro Ala Gln Gly Thr
180 185 190
Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro Ser Asp Gly Asn Cys
195 200 205
Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe Ala Arg Phe Leu Trp
210 215 220
Glu Trp Ala Ser Val Arg Phe Ser Trp Leu Ser Leu Leu Val Pro Phe
225 230 235 240
Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp Leu Ser Val Ile
245 250 255
Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr Asn Ile Leu Ser Pro
260 265 270
Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu Trp Val Tyr Ile
275 280 285

<210> 144

<211> 861

<212> :DNA

<213> Artificial Sequence

<220> :

<223> Description of Artificial Sequence:Artificially
synthesized sequence

<400> 144

atgggagggt	ggtcttccaa	acctcggaaa	ggcatgggga	cgaatctttc	tgttcccaat	60
cctctgggat	tctttcccga	tcaccagttg	gaccctgcgt	tcggagccaa	ctcaaacaat	120
ccagattggg	gcggccgctg	gagccacccg	cagttcgaaa	aagcggccgc	ccctgcaccg	180
aacatggaga	acacaacatc	aggattccta	ggacccctgc	tcgtgttaca	ggcgggggtt	240
ttcttggtga	caagaatcct	cacaatacca	cagagtctag	actcgtggtg	gacttctctc	300
aattttctag	ggggagcacc	cacgtgtcct	ggccaaaatt	cgcagtcccc	aacctccaat	360
cactcaccaa	cctcttgctc	tcgaatttgt	cctggctatc	gctggatgtg	tctgcggcgt	420
tttatcatat	tcctcttcat	cctgctgcta	tgcctcatct	tcttgttggt	tcttctggac	480
taccaaggta	tggtgcccg	ttgtcctcta	cttcaggaa	catcaaccac	cagcacgggg	540

Sequence Listing.txt

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ccatgcaaga cctgcacgat tcctgctcga ggaacctcta tgttccctc ttgttgctgt 600
acaaaacctt cggacggaaa ctgcacttgt attcccatcc catcatcctg ggctttcgca 660
agattcctat gggagtgggc ctgagtcctg ttctcctggc tcagtttact agtgccattt 720
gttcagtggg tcgtagggct ttccccact gtttggtctt cagttatatg gatgatgtgg 780
tattgggggc caagtctgta caacatcttg agtccctttt tacctctatt accaattttc 840
ttttgtcttt gggtatacat t 861
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<210> 145

<211> 287

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
synthesized sequence

<400> 145

Met Gly Gly Trp Ser Ser Lys Pro Arg Lys Gly Met Gly Thr Asn Leu
1 5 10 15

Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp His Gln Leu Asp Pro
20 25 30

Ala Phe Gly Ala Asn Ser Asn Asn Pro Asp Trp Gly Gly Arg Trp Ser
35 40 45

His Pro Gln Phe Glu Lys Ala Ala Ala Pro Ala Pro Asn Met Glu Asn
50 55 60

Thr Thr Ser Gly Phe Leu Gly Pro Leu Leu Val Leu Gln Ala Gly Phe
65 70 75 80

Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser Leu Asp Ser Trp
85 90 95

Trp Thr Ser Leu Asn Phe Leu Gly Gly Ala Pro Thr Cys Pro Gly Gln
100 105 110

Asn Ser Gln Ser Pro Thr Ser Asn His Ser Pro Thr Ser Cys Pro Pro
115 120 125

Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg Arg Phe Ile Ile Phe
130 135 140

Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu Val Leu Leu Asp
145 150 155 160

Tyr Gln Gly Met Leu Pro Val Cys Pro Leu Leu Pro Gly Thr Ser Thr
165 170 175

Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr Ile Pro Ala Arg Gly Thr
180 185 190

Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro Ser Asp Gly Asn Cys
195 200 205

Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe Ala Arg Phe Leu Trp
210 215 220

Glu Trp Ala Ser Val Arg Phe Ser Trp Leu Ser Leu Leu Val Pro Phe
225 230 235 240

Sequence Listing.txt

Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp Leu Ser Val Ile
 245 250 255
 Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr Asn Ile Leu Ser Pro
 260 265 270
 Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu Trp Val Tyr Ile
 275 280 285

<210> 146
 <211> 861
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Artificially
 synthesized sequence

<400> 146
 atgggagggt ggtcttccaa acctcggaaa ggcattggga cgaatctttc tgttcccaat 60
 cctctgggat tctttcccga tcaccagttg gaccctgcgt tcggagccaa ctcaaacaat 120
 ccagattggg gcggccgctg gagccacccg cagttcgaaa aagcggccgc ccctgcaccg 180
 aacatggaga acacaacatc aggattccta ggacccctgc tcgtgttaca ggcgggggtt 240
 ttcttgttga caagaatcct cacaatacca cagagtctag actcgtgggt gacttctctc 300
 aattttctag ggggagcacc cacgtgtcct ggccaaaatt cgcagtcccc aacctccaat 360
 cactcaccaa cctcttgtcc tccaatttgt cctggctatc gctggatgtg tctgcggcgt 420
 tttatcatat tcctcttcat cctgctgcta tgcctcatct tcttgttggg tcttctggac 480
 taccaaggta tgttgcccgt ttgtcctcta cttccaggaa catcaaccac cagcacgggg 540
 ccatgcaaga cctgcacgat tcctgtctaa ggaacctcta tgtttccctc ttgttgctgt 600
 acaaaacctt cggacagaaa ctgcacttgt attcccatcc catcatcctg ggctttcgca 660
 agattcctat gggagtgggc ctcagtcctg ttctcctggc tcagtttact agtgccattt 720
 gttcagtggt tcgtagggct ttccccact gtttggtttt cagttatatg gatgatgtgg 780
 tattgggggc caagtctgta caacatcttg agtccctttt tacctctatt accaattttc 840
 ttttgtcttt gggatatacat t 861

<210> 147
 <211> 287
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Artificially
 synthesized sequence

<400> 147
 Met Gly Gly Trp Ser Ser Lys Pro Arg Lys Gly Met Gly Thr Asn Leu
 1 5 10 15
 Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp His Gln Leu Asp Pro
 20 25 30
 Ala Phe Gly Ala Asn Ser Asn Asn Pro Asp Trp Gly Gly Arg Trp Ser
 35 40 45
 His Pro Gln Phe Glu Lys Ala Ala Ala Pro Ala Pro Asn Met Glu Asn
 50 55 60
 Thr Thr Ser Gly Phe Leu Gly Pro Leu Leu Val Leu Gln Ala Gly Phe
 65 70 75 80
 Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser Leu Asp Ser Trp

Sequence Listing.txt

85

90

95

Trp Thr Ser Leu Asn Phe Leu Gly Gly Ala Pro Thr Cys Pro Gly Gln
 100 105 110
 Asn Ser Gln Ser Pro Thr Ser Asn His Ser Pro Thr Ser Cys Pro Pro
 115 120 125
 Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg Arg Phe Ile Ile Phe
 130 135 140
 Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu Val Leu Leu Asp
 145 150 155 160
 Tyr Gln Gly Met Leu Pro Val Cys Pro Leu Leu Pro Gly Thr Ser Thr
 165 170 175
 Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr Ile Pro Ala Gln Gly Thr
 180 185 190
 Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro Ser Asp Arg Asn Cys
 195 200 205
 Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe Ala Arg Phe Leu Trp
 210 215 220
 Glu Trp Ala Ser Val Arg Phe Ser Trp Leu Ser Leu Leu Val Pro Phe
 225 230 235 240
 Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp Leu Ser Val Ile
 245 250 255
 Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr Asn Ile Leu Ser Pro
 260 265 270
 Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu Trp Val Tyr Ile
 275 280 285

<210> 148

<211> 861

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 148

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atgggaggtt ggtcttccaa acctcggaaa ggcattggga cgaatctttc tgttcccaat 60
cctctgggat tcttcccga tcaccagttg gaccctgcgt tcggagccaa ctcaaacaat 120
ccagattggg gcggccgtg gagccaccg cagttcgaaa aagcggccgc ccctgcaccg 180
aacatggaga acacaacatc aggattccta ggacccctgc tcgtgttaca ggcggggttt 240
ttcttgtga caagaatcct cacaatacca cagagtctag actcgtggtg gacttctctc 300
aattttctag ggggagcacc cacgtgtcct ggccaaaatt cgcagtcccc aacctccaat 360
cactaccaa cctcttgtcc tccaatttgt cctggctatc gctggatgtg tctgcggcgt 420
tttatcatat tcctcttcat cctgctgcta tgcctcatct tcttggtggt tcttctggac 480
taccaaggta tgttgcccgt ttgtcctcta cttccaggaa catcaaccac cagcacgggg 540
ccatgcaaga cctgcacgat tcctgctcga ggaacctcta tgtttccctc ttggtgctgt 600
acaaaacctt cggacagaaa ctgcacttgt attcccatcc catcatcctg ggctttcgca 660
agattcctat gggagtgggc ctcagtcctg ttctcctggc tcagtttact agtgccattt 720
gttcagtggt tcgtagggct ttccccact gtttggtttt cagttatatg gatgatgtgg 780
tattgggggc caagtctgta caacatcttg agtccctttt tacctctatt accaattttc 840

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ttttgtcttt gggtatacat t

<210> 149

<211> 287

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
synthesized sequence

<400> 149

Met	Gly	Gly	Trp	Ser	Ser	Lys	Pro	Arg	Lys	Gly	Met	Gly	Thr	Asn	Leu
1				5					10					15	
Ser	Val	Pro	Asn	Pro	Leu	Gly	Phe	Phe	Pro	Asp	His	Gln	Leu	Asp	Pro
			20					25					30		
Ala	Phe	Gly	Ala	Asn	Ser	Asn	Asn	Pro	Asp	Trp	Gly	Gly	Arg	Trp	Ser
		35					40					45			
His	Pro	Gln	Phe	Glu	Lys	Ala	Ala	Ala	Pro	Ala	Pro	Asn	Met	Glu	Asn
	50					55					60				
Thr	Thr	Ser	Gly	Phe	Leu	Gly	Pro	Leu	Leu	Val	Leu	Gln	Ala	Gly	Phe
	65				70					75					80
Phe	Leu	Leu	Thr	Arg	Ile	Leu	Thr	Ile	Pro	Gln	Ser	Leu	Asp	Ser	Trp
				85					90					95	
Trp	Thr	Ser	Leu	Asn	Phe	Leu	Gly	Gly	Ala	Pro	Thr	Cys	Pro	Gly	Gln
			100					105					110		
Asn	Ser	Gln	Ser	Pro	Thr	Ser	Asn	His	Ser	Pro	Thr	Ser	Cys	Pro	Pro
		115					120					125			
Ile	Cys	Pro	Gly	Tyr	Arg	Trp	Met	Cys	Leu	Arg	Arg	Phe	Ile	Ile	Phe
	130					135					140				
Leu	Phe	Ile	Leu	Leu	Leu	Cys	Leu	Ile	Phe	Leu	Leu	Val	Leu	Leu	Asp
	145				150					155					160
Tyr	Gln	Gly	Met	Leu	Pro	Val	Cys	Pro	Leu	Leu	Pro	Gly	Thr	Ser	Thr
				165					170					175	
Thr	Ser	Thr	Gly	Pro	Cys	Lys	Thr	Cys	Thr	Ile	Pro	Ala	Arg	Gly	Thr
			180					185					190		
Ser	Met	Phe	Pro	Ser	Cys	Cys	Cys	Thr	Lys	Pro	Ser	Asp	Arg	Asn	Cys
		195					200					205			
Thr	Cys	Ile	Pro	Ile	Pro	Ser	Ser	Trp	Ala	Phe	Ala	Arg	Phe	Leu	Trp
	210					215					220				
Glu	Trp	Ala	Ser	Val	Arg	Phe	Ser	Trp	Leu	Ser	Leu	Leu	Val	Pro	Phe
	225				230					235					240
Val	Gln	Trp	Phe	Val	Gly	Leu	Ser	Pro	Thr	Val	Trp	Leu	Ser	Val	Ile
				245					250					255	
Trp	Met	Met	Trp	Tyr	Trp	Gly	Pro	Ser	Leu	Tyr	Asn	Ile	Leu	Ser	Pro
			260					265					270		

Sequence Listing.txt

Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu Trp Val Tyr Ile
275 280 285

<210> 150
<211> 1254
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Artificially
synthesized sequence

<400> 150
atgggagggtt ggtcttccaa acctcggaaa ggcattgggga cgaatctttc tgttcccaat 60
cctctgggat tctttcccga tcaccagttg gaccctgcgt tcggagccaa ctcaaacaat 120
ccagattggg acttcaaccc caacaaggat caatggccag aggcaaatca ggtaggagcg 180
ggcggccgcg cgcaacacga tgaagccgta gacaacaaat tcaacaaaga acaacaaaac 240
gcgttctatg agatcttaca tttacctaac ttaaaccgaag aacaacgaaa cgccttcatt 300
caaggtttaa aagatgaccc aagccaaagc gctaaccctt tagcagaagc taaaaagcta 360
aatgatgctc aggcgcgcaa agtagacaac aaattcaaca aagaacaaca aaacgcgttc 420
tatgagatct tacattttacc taacttaaac gaagaacaac gaaacgcctt catccaaagt 480
ttaaagatg acccaagcca aagcgctaac ctttttagcag aagctaaaaa gctaaatgat 540
gctcaggcgc cgaaagcggc cgcccctgca ccgaacatgg agaacacaac atcaggattc 600
ctaggacccc tgctcgtgtt acaggcgggg tttttcttgt tgacaagaat cctcacata 660
ccacagagtc tagactcgtg gtggacttct ctcaattttc tagggggagc acccacgtgt 720
cctggccaaa attcgcagtc cccaacctcc aatcactcac caacctcttg tcttccaatt 780
tgtcctggct atcgtctggat gtgtctgcgg cgttttatca tattcctctt catcctgctg 840
ctatgcctca tcttctgtgt ggttcttctg gactaccaag gtatgttgcc cgtttgtcct 900
ctacttccag gaacatcaac caccagcacg gggccatgca agacctgcac gattcctgct 960
caaggaacct ctatgtttcc ctcttggtgc tgtacaaaac cttcggacgg aaactgcact 1020
tgtattccca tcccatcatc ctgggctttc gcaagattcc tatgggagtg ggcctcagtc 1080
cgtttctcct ggctcagttt actagtgcc tttgttcagt ggttcgtagg gctttccccc 1140
actgtttggc tttcagttat atggatgatg tggattggg ggccaagtct gtacaacatc 1200
ttgagtcctt tttacctct attaccaatt ttcttttgc tttgggtata catt 1254

<210> 151
<211> 418
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Artificially
synthesized sequence

<400> 151
Met Gly Gly Trp Ser Ser Lys Pro Arg Lys Gly Met Gly Thr Asn Leu
1 5 10 15
Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp His Gln Leu Asp Pro
20 25 30
Ala Phe Gly Ala Asn Ser Asn Asn Pro Asp Trp Asp Phe Asn Pro Asn
35 40 45
Lys Asp Gln Trp Pro Glu Ala Asn Gln Val Gly Ala Gly Gly Arg Ala
50 55 60
Gln His Asp Glu Ala Val Asp Asn Lys Phe Asn Lys Glu Gln Gln Asn
65 70 75 80

Sequence Listing.txt

Ala Phe Tyr Glu Ile Leu His Leu Pro Asn Leu Asn Glu Glu Gln Arg
 85 90 95
 Asn Ala Phe Ile Gln Ser Leu Lys Asp Asp Pro Ser Gln Ser Ala Asn
 100 105 110
 Leu Leu Ala Glu Ala Lys Lys Leu Asn Asp Ala Gln Ala Pro Lys Val
 115 120 125
 Asp Asn Lys Phe Asn Lys Glu Gln Gln Asn Ala Phe Tyr Glu Ile Leu
 130 135 140
 His Leu Pro Asn Leu Asn Glu Glu Gln Arg Asn Ala Phe Ile Gln Ser
 145 150 155 160
 Leu Lys Asp Asp Pro Ser Gln Ser Ala Asn Leu Leu Ala Glu Ala Lys
 165 170 175
 Lys Leu Asn Asp Ala Gln Ala Pro Lys Ala Ala Ala Pro Ala Pro Asn
 180 185 190
 Met Glu Asn Thr Thr Ser Gly Phe Leu Gly Pro Leu Leu Val Leu Gln
 195 200 205
 Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser Leu
 210 215 220
 Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Ala Pro Thr Cys
 225 230 235 240
 Pro Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn His Ser Pro Thr Ser
 245 250 255
 Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg Arg Phe
 260 265 270
 Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu Val
 275 280 285
 Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu Leu Pro Gly
 290 295 300
 Thr Ser Thr Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr Ile Pro Ala
 305 310 315 320
 Gln Gly Thr Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro Ser Asp
 325 330 335
 Gly Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe Ala Arg
 340 345 350
 Phe Leu Trp Glu Trp Ala Ser Val Arg Phe Ser Trp Leu Ser Leu Leu
 355 360 365
 Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp Leu
 370 375 380
 Ser Val Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr Asn Ile
 385 390 395 400
 Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu Trp Val
 405 410 415

Sequence Listing.txt

Tyr Ile

<210> 152

<211> 1254

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 152

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atgggagggtt ggtcttccaa acctcggaaa ggcatgggga cgaatctttc tgttcccaat 60
cctctgggat tctttcccga tcaccagttg gaccctgctg tcggagccaa ctcaaacaat 120
ccagattggg acttcaaccc caacaaggat caatggccag aggcaaatca ggtaggagcg 180
ggcggccgcg cgcaacacga tgaagccgta gacaacaaat tcaacaaaga acaacaaaac 240
gcgttctatg agatctttaca ttacctaac ttaaaccgaag aacaacgaaa cgccttcac 300
caaagtttta aagatgaccc aagccaaagc gctaaccctt tagcagaagc taaaaagcta 360
aatgatgctc aggcgccgaa agtagacaac aaattcaaca aagaacaaca aaacgcgttc 420
tatgagatct tacatttacc taacttaaac gaagaacaac gaaacgcctt catccaaagt 480
ttaaagatg acccaagcca aagcgctaac ctttagcag aagctaaaaa gctaaatgat 540
gctcaggcgc cgaaagcggc cgcccctgca ccgaacatgg agaacacaac atcaggattc 600
ctaggacccc tgctcgtgtt acaggcgggg ttttcttgt tgacaagaat cctcacaata 660
ccacagagtc tagactcgtg gtggacttct ctcaattttc tagggggagc acccacgtgt 720
cctggccaaa attcgcagtc cccaacctcc aatcactcac caacctctg tcctccaatt 780
tgtcctggct atcgtctggat gtgtctgcgg cgttttatca tattcctctt catcctgctg 840
ctatgcctca tcttcttgtt ggttcttctg gactaccaag gtatgttgcc cgtttgcct 900
ctacttccag gaacatcaac caccagcacg gggccatgca agacctgcac gattcctgct 960
cgaggaacct ctatgtttcc ctctgtgtgc tgtacaaaac cttcggacgg aaactgcact 1020
tgtattccca tcccacatc ctgggctttc gcaagattcc tatgggagtg ggcctcagtc 1080
cgtttctcct ggctcagttt actagtgcc tttgttcagt ggttcgtagg gctttcccc 1140
actgtttggc tticagttat atggatgatg tggattggg ggccaagtct gtacaacatc 1200
ttgagtcctt tttacctct attaccaatt ttcttttgc tttgggtata catt 1254
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<210> 153

<211> 418

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 153

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Met Gly Gly Trp Ser Ser Lys Pro Arg Lys Gly Met Gly Thr Asn Leu
 1          5          10          15
Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp His Gln Leu Asp Pro
          20          25          30
Ala Phe Gly Ala Asn Ser Asn Asn Pro Asp Trp Asp Phe Asn Pro Asn
          35          40          45
Lys Asp Gln Trp Pro Glu Ala Asn Gln Val Gly Ala Gly Gly Arg Ala
          50          55          60
Gln His Asp Glu Ala Val Asp Asn Lys Phe Asn Lys Glu Gln Gln Asn
          65          70          75          80
Ala Phe Tyr Glu Ile Leu His Leu Pro Asn Leu Asn Glu Glu Gln Arg
```

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Sequence Listing.txt

<210> 154
 <211> 1254
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 154
 atggggagggtt ggtcttccaa acctcggaaa ggcatgggga cgaatctttc tgttcccaat 60
 cctctgggat tctttcccga tcaccagttg gaccctgctg tcggagccaa ctcaaacaat 120
 ccagattggg acttcaaccc caacaaggat caatggccag aggcaaatca ggtaggagcg 180
 ggcggccgcg cgcaacacga tgaagccgta gacaacaaat tcaacaaaga acaacaaaac 240
 gcgttctatg agatcttaca ttacctaac ttaaacgaag aacaacgaaa cgccttcac 300
 caaagttaa aagatgaccc aagccaaagc gctaaccctt tagcagaagc taaaaagcta 360
 aatgatgctc aggcgcccga agtagacaac aaattcaaca aagaacaaca aaacgcgttc 420
 tatgagatct tacatttacc taacttaaac gaagaacaac gaaacgcctt catccaaagt 480
 ttaaaagatg acccaagcca aagcgctaac cttttagcag aagctaaaaa gctaaatgat 540
 gctcaggcgc cgaaaagcggc cgcccctgca ccgaacatgg agaacacaac atcaggattc 600
 ctaggacccc tgctcgtgtt acaggcgggg tttttcttgt tgacaagaat cctcacaata 660
 ccacagagtc tagactcgtg gtggacttct ctcaattttc tagggggagc acccacgtgt 720
 cctggccaaa attcgagtc cccaacctcc aatcactcac caacctctg tcctccaatt 780
 tgtcctggct atcgtctggat gtgtctgcgg cgttttatca tattcctctt catcctgctg 840
 ctatgcctca tcttcttgtt ggttcttctg gactaccaag gtatgttgcc cgtttgtcct 900
 ctacttccag gaacatcaac caccagcacg gggccatgca agacctgcac gattcctgct 960
 caaggaacct ctatgtttcc ctcttggtgc tgtacaaaac cttcggacag aaactgcact 1020
 tgtattccca tcccatcatc ctgggctttc gcaagattcc tatgggagtg ggcctcagtc 1080
 cgtttctcct ggctcagttt actagtgcga tttgttcagt ggttcgtagg gctttccccc 1140
 actgtttggc tttcagttat atggatgatg tggattggg ggccaagtct gtacaacatc 1200
 ttgagtcctt ttttacctct attaccaatt ttcttttgc tttgggtata catt 1254

<210> 155
 <211> 418
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 155
 Met Gly Gly Trp Ser Ser Lys Pro Arg Lys Gly Met Gly Thr Asn Leu
 1 5 10 15
 Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp His Gln Leu Asp Pro
 20 25 30
 Ala Phe Gly Ala Asn Ser Asn Asn Pro Asp Trp Asp Phe Asn Pro Asn
 35 40 45
 Lys Asp Gln Trp Pro Glu Ala Asn Gln Val Gly Ala Gly Gly Arg Ala
 50 55 60
 Gln His Asp Glu Ala Val Asp Asn Lys Phe Asn Lys Glu Gln Gln Asn
 65 70 75 80
 Ala Phe Tyr Glu Ile Leu His Leu Pro Asn Leu Asn Glu Glu Gln Arg
 85 90 95

Sequence Listing.txt

Asn Ala Phe Ile Gln Ser Leu Lys Asp Asp Pro Ser Gln Ser Ala Asn
 100 105 110
 Leu Leu Ala Glu Ala Lys Lys Leu Asn Asp Ala Gln Ala Pro Lys Val
 115 120 125
 Asp Asn Lys Phe Asn Lys Glu Gln Gln Asn Ala Phe Tyr Glu Ile Leu
 130 135 140
 His Leu Pro Asn Leu Asn Glu Glu Gln Arg Asn Ala Phe Ile Gln Ser
 145 150 155 160
 Leu Lys Asp Asp Pro Ser Gln Ser Ala Asn Leu Leu Ala Glu Ala Lys
 165 170 175
 Lys Leu Asn Asp Ala Gln Ala Pro Lys Ala Ala Ala Pro Ala Pro Asn
 180 185 190
 Met Glu Asn Thr Thr Ser Gly Phe Leu Gly Pro Leu Leu Val Leu Gln
 195 200 205
 Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser Leu
 210 215 220
 Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Ala Pro Thr Cys
 225 230 235 240
 Pro Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn His Ser Pro Thr Ser
 245 250 255
 Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg Arg Phe
 260 265 270
 Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu Val
 275 280 285
 Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu Leu Pro Gly
 290 295 300
 Thr Ser Thr Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr Ile Pro Ala
 305 310 315 320
 Gln Gly Thr Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro Ser Asp
 325 330 335
 Arg Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe Ala Arg
 340 345 350
 Phe Leu Trp Glu Trp Ala Ser Val Arg Phe Ser Trp Leu Ser Leu Leu
 355 360 365
 Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp Leu
 370 375 380
 Ser Val Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr Asn Ile
 385 390 395 400
 Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu Trp Val
 405 410 415
 Tyr Ile

Sequence Listing.txt

<210> 156
 <211> 1254
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 156
 atgggagggtt ggtcttccaa acctcggaag ggcattggga cgaatctttc tgttcccaat 60
 cctctgggat tctttccga tcaccagttg gaccctgcgt tcggagccaa ctcaaacaat 120
 ccagattggg acttcaaccc caacaaggat caatggccag aggcaaatca ggtaggagcg 180
 ggcggccgcg cgcaacacga tgaagccgta gacaacaaat tcaacaaaga acaacaaaac 240
 gcgttctatg agatcttaca ttacctaac ttaaacgaag aacaacgaaa cgccttcac 300
 caaagttaa aagatgaccc aagccaaagc gctaaccctt tagcagaagc taaaaagcta 360
 aatgatgctc aggcgcccga agtagaaca aaattcaaca aagaacaaca aaacgcgttc 420
 tatgagatct tacatttacc taacttaaac gaagaacaac gaaacgcctt catccaaagt 480
 ttaaaagatg acccaagcca aagcgctaac ctttttagcag aagctaaaaa gctaaatgat 540
 gctcaggcgc cgaaagcggc cgcccctgca ccgaacatgg agaacacaac atcaggattc 600
 ctaggacccc tgctcgtgtt acaggcgggg tttttcttgt tgacaagaat cctcacaata 660
 ccacagagtc tagactcgtg gtggacttct ctcaattttc tagggggagc acccacgtgt 720
 cctggccaaa attcgagtc cccaacctcc aatcactcac caacctcttg tcctccaatt 780
 tgcctggct atcgctggat gtgtctgagg cgttttatca tattcctctt catcctgctg 840
 ctatgcctca tcttctgtt ggttcttctg gactaccaag gtatgttgcc cgtttgcct 900
 ctacttccag gaacatcaac caccagcacg gggccatgca agacctgcac gattcctgct 960
 cgaggaacct ctatgtttcc ctcttggtgc tgtacaaaac cttcggacag aaactgcact 1020
 tgtattccca tcccatcatc ctgggctttc gcaagattcc tatgggagtg ggcctcagtc 1080
 cgtttctcct ggctcagttt actagtgcc tttgttcagt ggctcgtagg gctttccccc 1140
 actgtttggc ttccagttat atggatgatg tggattggg ggccaagtct gtacaacatc 1200
 ttgagtcct ttttacctt attaccaatt ttctttgtc tttgggtata catt 1254

<210> 157
 <211> 418
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 157
 Met Gly Gly Trp Ser Ser Lys Pro Arg Lys Gly Met Gly Thr Asn Leu
 1 5 10 15
 Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp His Gln Leu Asp Pro
 20 25 30
 Ala Phe Gly Ala Asn Ser Asn Asn Pro Asp Trp Asp Phe Asn Pro Asn
 35 40 45
 Lys Asp Gln Trp Pro Glu Ala Asn Gln Val Gly Ala Gly Gly Arg Ala
 50 55 60
 Gln His Asp Glu Ala Val Asp Asn Lys Phe Asn Lys Glu Gln Gln Asn
 65 70 75 80
 Ala Phe Tyr Glu Ile Leu His Leu Pro Asn Leu Asn Glu Glu Gln Arg
 85 90 95

Sequence Listing.txt

Asn	Ala	Phe	Ile	Gln	Ser	Leu	Lys	Asp	Asp	Pro	Ser	Gln	Ser	Ala	Asn
			100					105					110		
Leu	Leu	Ala	Glu	Ala	Lys	Lys	Leu	Asn	Asp	Ala	Gln	Ala	Pro	Lys	Val
		115					120					125			
Asp	Asn	Lys	Phe	Asn	Lys	Glu	Gln	Gln	Asn	Ala	Phe	Tyr	Glu	Ile	Leu
		130				135					140				
His	Leu	Pro	Asn	Leu	Asn	Glu	Glu	Gln	Arg	Asn	Ala	Phe	Ile	Gln	Ser
145					150					155					160
Leu	Lys	Asp	Asp	Pro	Ser	Gln	Ser	Ala	Asn	Leu	Leu	Ala	Glu	Ala	Lys
				165					170					175	
Lys	Leu	Asn	Asp	Ala	Gln	Ala	Pro	Lys	Ala	Ala	Ala	Pro	Ala	Pro	Asn
			180					185					190		
Met	Glu	Asn	Thr	Thr	Ser	Gly	Phe	Leu	Gly	Pro	Leu	Leu	Val	Leu	Gln
		195					200					205			
Ala	Gly	Phe	Phe	Leu	Leu	Thr	Arg	Ile	Leu	Thr	Ile	Pro	Gln	Ser	Leu
	210					215					220				
Asp	Ser	Trp	Trp	Thr	Ser	Leu	Asn	Phe	Leu	Gly	Gly	Ala	Pro	Thr	Cys
225					230					235					240
Pro	Gly	Gln	Asn	Ser	Gln	Ser	Pro	Thr	Ser	Asn	His	Ser	Pro	Thr	Ser
				245					250					255	
Cys	Pro	Pro	Ile	Cys	Pro	Gly	Tyr	Arg	Trp	Met	Cys	Leu	Arg	Arg	Phe
			260					265					270		
Ile	Ile	Phe	Leu	Phe	Ile	Leu	Leu	Leu	Cys	Leu	Ile	Phe	Leu	Leu	Val
		275					280					285			
Leu	Leu	Asp	Tyr	Gln	Gly	Met	Leu	Pro	Val	Cys	Pro	Leu	Leu	Pro	Gly
	290					295					300				
Thr	Ser	Thr	Thr	Ser	Thr	Gly	Pro	Cys	Lys	Thr	Cys	Thr	Ile	Pro	Ala
305					310					315					320
Arg	Gly	Thr	Ser	Met	Phe	Pro	Ser	Cys	Cys	Cys	Thr	Lys	Pro	Ser	Asp
				325					330					335	
Arg	Asn	Cys	Thr	Cys	Ile	Pro	Ile	Pro	Ser	Ser	Trp	Ala	Phe	Ala	Arg
			340					345					350		
Phe	Leu	Trp	Glu	Trp	Ala	Ser	Val	Arg	Phe	Ser	Trp	Leu	Ser	Leu	Leu
		355					360					365			
Val	Pro	Phe	Val	Gln	Trp	Phe	Val	Gly	Leu	Ser	Pro	Thr	Val	Trp	Leu
	370					375					380				
Ser	Val	Ile	Trp	Met	Met	Trp	Tyr	Trp	Gly	Pro	Ser	Leu	Tyr	Asn	Ile
385					390					395					400
Leu	Ser	Pro	Phe	Leu	Pro	Leu	Leu	Pro	Ile	Phe	Phe	Cys	Leu	Trp	Val
				405					410					415	
Tyr	Ile														

Sequence Listing.txt

<210> 158
<211> 1053
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 158
atgggagggt ggtcttccaa acctcggaaa ggcattggga cgaatctttc tgttcccaat 60
cctctgggat tctttcccga tcaccagtgt gaccctgcgt tcggagccaa ctcaaacaat 120
ccagattggg acttcaaccc caacaaggat caatggccag aggcaaatca ggtaggagcg 180
ggcggccgca tgaactctga ttccgaatgc ccgctgtctc atgacggtta ctgcctgcat 240
gatggcgtat gcatgtacat cgaagctctg gacaaatacg catgcaactg tgttgtaggt 300
tacatcggcg aacgttgcca gtatcgcgac ctgaaatggg gggaactgcg taaggcggcc 360
gcccctgcac cgaacatgga gaacacaaca tcaggattcc taggaccctt gctcgtgtta 420
caggcggggg ttttcttgtt gacaagaatc ctcacaatac cacagagtct agactcgtgg 480
tggacttctc tcaattttct agggggagca cccacgtgtc ctggccaaaa ttcgcagtcc 540
ccaacctcca atcactcacc aacctcttgt cctccaattt gtcctggcta tcgctggatg 600
tgtctgcggc gttttatcat attcctcttc atcctgctgc tatgcctcat cttcttgttg 660
gttcttctgg actaccaagg tatgttgccc gtttgccttc tacttccagg aacatcaacc 720
accagcacgg ggccatgcaa gacctgcacg attcctgctc aaggaacctc tatgtttccc 780
tcttgttgct gtacaaaacc ttcggacgga aactgcactt gtattcccat cccatcatcc 840
tgggctttcg caagattcct atgggagtg gacctcagtc gtttctcctg gctcagttta 900
ctagtgccat ttgttcagtg gttcgtaggg ctttcccca ctgtttggct ttcagttata 960
tggatgatgt ggtattgggg gccaaagtct tacaacatct tgagtccctt tttacctcta 1020
ttaccaatth tcttttgtct ttgggtatac att 1053

<210> 159
<211> 351
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 159
Met Gly Gly Trp Ser Ser Lys Pro Arg Lys Gly Met Gly Thr Asn Leu
1 5 10 15
Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp His Gln Leu Asp Pro
20 25 30
Ala Phe Gly Ala Asn Ser Asn Asn Pro Asp Trp Asp Phe Asn Pro Asn
35 40 45
Lys Asp Gln Trp Pro Glu Ala Asn Gln Val Gly Ala Gly Gly Arg Met
50 55 60
Asn Ser Asp Ser Glu Cys Pro Leu Ser His Asp Gly Tyr Cys Leu His
65 70 75 80
Asp Gly Val Cys Met Tyr Ile Glu Ala Leu Asp Lys Tyr Ala Cys Asn
85 90 95
Cys Val Val Gly Tyr Ile Gly Glu Arg Cys Gln Tyr Arg Asp Leu Lys
100 105 110
Trp Trp Glu Leu Arg Lys Ala Ala Ala Pro Ala Pro Asn Met Glu Asn

Sequence Listing.txt

115

120

125

Thr Thr Ser Gly Phe Leu Gly Pro Leu Leu Val Leu Gln Ala Gly Phe
 130 135 140
 Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser Leu Asp Ser Trp
 145 150 155 160
 Trp Thr Ser Leu Asn Phe Leu Gly Gly Ala Pro Thr Cys Pro Gly Gln
 165 170 175
 Asn Ser Gln Ser Pro Thr Ser Asn His Ser Pro Thr Ser Cys Pro Pro
 180 185 190
 Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg Arg Phe Ile Ile Phe
 195 200 205
 Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu Val Leu Leu Asp
 210 215 220
 Tyr Gln Gly Met Leu Pro Val Cys Pro Leu Leu Pro Gly Thr Ser Thr
 225 230 235 240
 Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr Ile Pro Ala Gln Gly Thr
 245 250 255
 Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro Ser Asp Gly Asn Cys
 260 265 270
 Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe Ala Arg Phe Leu Trp
 275 280 285
 Glu Trp Ala Ser Val Arg Phe Ser Trp Leu Ser Leu Leu Val Pro Phe
 290 295 300
 Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp Leu Ser Val Ile
 305 310 315 320
 Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr Asn Ile Leu Ser Pro
 325 330 335
 Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu Trp Val Tyr Ile
 340 345 350

<210> :160

<211> :1053

<212> :DNA

<213> :Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 160

```

atgggagggtt ggtcttccaa acctcggaaa ggcatgggga cgaatctttc tgttcccaat 60
cctctgggat tctttccga tcaccagtg gaccctgcgt tcggagccaa ctcaaacaat 120
ccagattggg acttcaaccc caacaaggat caatggccag aggcaaata ggtaggagcg 180
ggcggccgca tgaactctga ttccgaatgc ccgctgtctc atgacggtta ctgcctgcat 240
gatggcgtat gcatgtacat cgaagctctg gacaaatacg catgcaactg tgttgtaggt 300
tacatcggcg aacgttgcca gtatcgcgac ctgaaatggg gggaactgcg taaggcggcc 360
gcccctgcac cgaacatgga gaacacaaca tcaggattcc taggaccctt gctcgtgta 420
caggcggggt ttttctgtt gacaagaatc ctcacaatac cacagagtct agactcgtgg 480
  
```


Sequence Listing.txt

```

tggacttctc tcaattttct aggggggagca cccacgtgtc ctggccaaaa ttcgcagtcc 540
ccaacctcca atcactcacc aacctcttgt cctccaattt gtcctggcta tcgctggatg 600
tgtctgcggc gttttatcat attcctcttc atcctgctgc tatgcctcat cttcttggtg 660
gttcttcttg actaccaagg tatgttgccc gtttgcctc tacttccagg aacatcaacc 720
accagcacgg ggccatgcaa gacctgcacg attcctgctc gaggaacctc tatgtttccc 780
tcttggtgct gtacaaaacc ttcggacgga aactgcactt gtattcccat cccatcatcc 840
tgggctttcg caagatttct atgggagtg gcctcagtc gtttctcctg gctcagttta 900
ctagtgccat ttgttcagtg gttcgtagg ctttccccca ctgtttggct ttcagttata 960
tggatgatgt ggtattgggg gccaaagtctg tacaacatct tgagtcctt tttacctcta 1020
ttaccaattt tcttttgct ttgggtatac att 1053

```

<210> 161

<211> 351

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 161

```

Met Gly Gly Trp Ser Ser Lys Pro Arg Lys Gly Met Gly Thr Asn Leu
 1          5          10          15
Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp His Gln Leu Asp Pro
          20          25          30
Ala Phe Gly Ala Asn Ser Asn Asn Pro Asp Trp Asp Phe Asn Pro Asn
 35          40          45
Lys Asp Gln Trp Pro Glu Ala Asn Gln Val Gly Ala Gly Gly Arg Met
 50          55          60
Asn Ser Asp Ser Glu Cys Pro Leu Ser His Asp Gly Tyr Cys Leu His
 65          70          75          80
Asp Gly Val Cys Met Tyr Ile Glu Ala Leu Asp Lys Tyr Ala Cys Asn
          85          90          95
Cys Val Val Gly Tyr Ile Gly Glu Arg Cys Gln Tyr Arg Asp Leu Lys
100          105          110
Trp Trp Glu Leu Arg Lys Ala Ala Ala Pro Ala Pro Asn Met Glu Asn
115          120          125
Thr Thr Ser Gly Phe Leu Gly Pro Leu Leu Val Leu Gln Ala Gly Phe
130          135          140
Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser Leu Asp Ser Trp
145          150          155          160
Trp Thr Ser Leu Asn Phe Leu Gly Gly Ala Pro Thr Cys Pro Gly Gln
165          170          175
Asn Ser Gln Ser Pro Thr Ser Asn His Ser Pro Thr Ser Cys Pro Pro
180          185          190
Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg Arg Phe Ile Ile Phe
195          200          205
Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu Val Leu Leu Asp
210          215          220

```

Sequence Listing.txt

Tyr Gln Gly Met Leu Pro Val Cys Pro Leu Leu Pro Gly Thr Ser Thr
 225 230 235 240
 Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr Ile Pro Ala Arg Gly Thr
 245 250 255
 Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro Ser Asp Gly Asn Cys
 260 265 270
 Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe Ala Arg Phe Leu Trp
 275 280 285
 Glu Trp Ala Ser Val Arg Phe Ser Trp Leu Ser Leu Leu Val Pro Phe
 290 295 300
 Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp Leu Ser Val Ile
 305 310 315 320
 Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr Asn Ile Leu Ser Pro
 325 330 335
 Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu Trp Val Tyr Ile
 340 345 350

<210> 162
 <211> 1053
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Artificially
 synthesized sequence

<400> 162
 atgggaggtt ggtcttccaa acctcggaaa ggcattggga cgaatctttc tgttcccaat 60
 cctctgggat tctttcccga tcaccagttg gaccctgcgt tcggagccaa ctcaaacaat 120
 ccagattggg acttcaaccc caacaaggat caatggccag aggcaaatca ggtaggagcg 180
 ggcggccgca tgaactctga ttccgaatgc ccgctgtctc atgacggtta ctgcctgcat 240
 gatggcgat gcatgtacat cgaagctctg gacaaatacg catgcaactg tgttgtaggt 300
 tacatcggcg aacgttgcca gtatcgcgac ctgaaatggg gggaactgcg taaggcggcc 360
 gccctgcac cgaacatgga gaacacaaca tcaggattcc taggaccctc gctcgtgta 420
 caggcggggt ttttcttggt gacaagaatc ctcacaatac cacagagtct agactcgtgg 480
 tggacttctc tcaattttct agggggagca cccacgtgtc ctggccaaaa ttcgcagtcc 540
 ccaacctcca atcactcacc aacctcttgt cctccaattt gtcctggcta tcgctggatg 600
 tgtctcggc gttttatcat attcctcttc atcctgctgc tatgcctcat cttcttggtg 660
 gttcttctgg actaccaagg tatgttgccc gtttgcctc tacttccagg aacatcaacc 720
 accagcacgg ggccatgcaa gacctgcacg attcctgctc aaggaacctc tatgtttccc 780
 tcttggtgct gtacaaaacc ttcggacaga aactgcactt gtattcccat cccatcatcc 840
 tgggctttcg caagattcct atgggagtgg gcctcagtcg gtttctcctg gctcagttta 900
 ctagtgccat ttgttcagtg gttcgtaggg ctttcccca ctgtttggct ttcagttata 960
 tggatgatgt ggtattgggg gccaaagtctg tacaacatct tgagtccttt tttacctcta 1020
 tiaccaattt tcttttgtct ttgggtatac att 1053

<210> 163
 <211> 351
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Artificially
 Page 118

Sequence Listing.txt

synthesized sequence

<400> 163

```

Met Gly Gly Trp Ser Ser Lys Pro Arg Lys Gly Met Gly Thr Asn Leu
 1          5          10          15
Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp His Gln Leu Asp Pro
          20          25          30
Ala Phe Gly Ala Asn Ser Asn Asn Pro Asp Trp Asp Phe Asn Pro Asn
          35          40          45
Lys Asp Gln Trp Pro Glu Ala Asn Gln Val Gly Ala Gly Gly Arg Met
          50          55          60
Asn Ser Asp Ser Glu Cys Pro Leu Ser His Asp Gly Tyr Cys Leu His
 65          70          75          80
Asp Gly Val Cys Met Tyr Ile Glu Ala Leu Asp Lys Tyr Ala Cys Asn
          85          90          95
Cys Val Val Gly Tyr Ile Gly Glu Arg Cys Gln Tyr Arg Asp Leu Lys
          100          105          110
Trp Trp Glu Leu Arg Lys Ala Ala Ala Pro Ala Pro Asn Met Glu Asn
          115          120          125
Thr Thr Ser Gly Phe Leu Gly Pro Leu Leu Val Leu Gln Ala Gly Phe
          130          135          140
Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser Leu Asp Ser Trp
          145          150          155          160
Trp Thr Ser Leu Asn Phe Leu Gly Gly Ala Pro Thr Cys Pro Gly Gln
          165          170          175
Asn Ser Gln Ser Pro Thr Ser Asn His Ser Pro Thr Ser Cys Pro Pro
          180          185          190
Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg Arg Phe Ile Ile Phe
          195          200          205
Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu Val Leu Leu Asp
          210          215          220
Tyr Gln Gly Met Leu Pro Val Cys Pro Leu Leu Pro Gly Thr Ser Thr
          225          230          235          240
Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr Ile Pro Ala Gln Gly Thr
          245          250          255
Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro Ser Asp Arg Asn Cys
          260          265          270
Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe Ala Arg Phe Leu Trp
          275          280          285
Glu Trp Ala Ser Val Arg Phe Ser Trp Leu Ser Leu Leu Val Pro Phe
          290          295          300
Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp Leu Ser Val Ile
          305          310          315          320

```

Sequence Listing.txt

Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr Asn Ile Leu Ser Pro
325 330 335

Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu Trp Val Tyr Ile
340 345 350

<210> 164
<211> 1053
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 164
atgggagggt ggtcttccaa acctcggaaa ggcatgggga cgaatctttc tgttcccaat 60
cctctgggat tctttcccga tcaccagttg gaccctgcgt tcggagccaa ctcaaacaat 120
ccagattggg acttcaaccc caacaaggat caatggccag aggcaaatca ggtaggagcg 180
ggcggccgca tgaactctga ttccgaatgc ccgctgtctc atgacggtta ctgcctgcat 240
gatggcgtat gcatgtacat cgaagctctg gacaaatacg catgcaactg tgttgtaggt 300
tacatcgcg aacgttgcca gtatcgcgac ctgaaatggg gggaactgcy taaggcggcc 360
gcccctgcac cgaacatgga gaacacaaca tcaggattcc taggaccctt gctcgtgcta 420
caggcggggg ttttcttgtt gacaagaatc ctcacaatac cacagagtct agactcgtgg 480
tggacttctc tcaattttct agggggagca cccacgtgtc ctggccaaaa ttcgcagtcc 540
ccaacctcca atcactcacc aacctcttgt cctccaattt gtcctggcta tcgctggatg 600
tgtctgcggc gttttatcat attcctcttc atcctgtctc tatgcctcat cttcttggttg 660
gttcttctgg actaccaagg tatgttgccc gtttgcctc tacttccagg aacatcaacc 720
accagcacgg ggccatgcaa gacctgcacg attcctgtct gaggaacctc tatgtttccc 780
tcttgttgct gtacaaaacc ttcggacaga aactgcactt gtattcccat cccatcatcc 840
tgggctttcg caagattcct atgggagtgg gcctcagtcg gtttctcctg gctcagttta 900
ctagtgcctat ttgttcagtg gttcgtaggg ctttccccca ctgtttggct ttcagttata 960
tggatgatgt ggtattgggg gccaaagtctg tacaacatct tgagtcctct tttacctcta 1020
ttaccaattt tcttttgtct ttgggtatac att 1053

<210> 165
<211> 351
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 165
Met Gly Gly Trp Ser Ser Lys Pro Arg Lys Gly Met Gly Thr Asn Leu
1 5 10 15
Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp His Gln Leu Asp Pro
20 25 30
Ala Phe Gly Ala Asn Ser Asn Asn Pro Asp Trp Asp Phe Asn Pro Asn
35 40 45
Lys Asp Gln Trp Pro Glu Ala Asn Gln Val Gly Ala Gly Gly Arg Met
50 55 60
Asn Ser Asp Ser Glu Cys Pro Leu Ser His Asp Gly Tyr Cys Leu His
65 70 75 80
Asp Gly Val Cys Met Tyr Ile Glu Ala Leu Asp Lys Tyr Ala Cys Asn

Sequence Listing.txt

85

90

95

Cys Val Val Gly Tyr Ile Gly Glu Arg Cys Gln Tyr Arg Asp Leu Lys
 100 105 110
 Trp Trp Glu Leu Arg Lys Ala Ala Ala Pro Ala Pro Asn Met Glu Asn
 115 120 125
 Thr Thr Ser Gly Phe Leu Gly Pro Leu Leu Val Leu Gln Ala Gly Phe
 130 135 140
 Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser Leu Asp Ser Trp
 145 150 155 160
 Trp Thr Ser Leu Asn Phe Leu Gly Gly Ala Pro Thr Cys Pro Gly Gln
 165 170 175
 Asn Ser Gln Ser Pro Thr Ser Asn His Ser Pro Thr Ser Cys Pro Pro
 180 185 190
 Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg Arg Phe Ile Ile Phe
 195 200 205
 Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu Val Leu Leu Asp
 210 215 220
 Tyr Gln Gly Met Leu Pro Val Cys Pro Leu Leu Pro Gly Thr Ser Thr
 225 230 235 240
 Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr Ile Pro Ala Arg Gly Thr
 245 250 255
 Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro Ser Asp Arg Asn Cys
 260 265 270
 Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe Ala Arg Phe Leu Trp
 275 280 285
 Glu Trp Ala Ser Val Arg Phe Ser Trp Leu Ser Leu Leu Val Pro Phe
 290 295 300
 Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp Leu Ser Val Ile
 305 310 315 320
 Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr Asn Ile Leu Ser Pro
 325 330 335
 Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu Trp Val Tyr Ile
 340 345 350

<210> 166

<211> 912

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
synthesized sequence

<400> 166

atgggaggtt ggtcttccaa acctcggaaa ggcattggga cgaatctttc tgttcccaat 60
 cctctgggat tctttccga tcaccagttg gacctgcgt tcggagccaa ctcaaacaat 120

Sequence Listing.txt

```

ccagattggg acttcaaccc caacaaggat caatggccag aggcaaatca ggtaggagcg 180
ggcggccgct ggagccaccc gcagttcgaa aaagcggccg cccctgcacc gaacatggag 240
aacacaacat caggattcct aggacccctg ctctgtgttac aggcgggggtt tttcttggtg 300
acaagaatcc tcacaatacc acagagtcta gactcgtggt ggacttctct caattttcta 360
gggggagcac ccacgtgtcc tggccaaaat tcgcagtccc caacctccaa tcactcacca 420
acctcttgtc ctccaatttg tcctggctat cgctggatgt gtctgcggcg ttttatcata 480
ttcctcttca tcctgctgct atgcctcatc ttcttggtgg ttcttctgga ctaccaaggt 540
atgttgcccg tttgtcctct acttccagga acatcaacca ccagcacggg gccatgcaag 600
acctgcacga ttctgctca aggaacctct atgtttccct ctgttgctg tacaaaacct 660
tcggacggaa actgcacttg tattcccatc ccatcatcct gggctttcgc aagattccta 720
tgggagtggt cctcagtcctg tttctcctgg ctacagtttac tagtgccatt tgttcagtg 780
ttcgtagggc tttcccccac tgtttggtt tcagttatat ggatgatgtg gtattggggg 840
ccaagtctgt acaacatctt gagtcccttt ttacctctat taccaatttt cttttgtctt 900
tgggtataca tt                                     912

```

<210> 167

<211> 304

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 167

```

Met Gly Gly Trp Ser Ser Lys Pro Arg Lys Gly Met Gly Thr Asn Leu
 1          5          10          15
Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp His Gln Leu Asp Pro
          20          25          30
Ala Phe Gly Ala Asn Ser Asn Asn Pro Asp Trp Asp Phe Asn Pro Asn
          35          40          45
Lys Asp Gln Trp Pro Glu Ala Asn Gln Val Gly Ala Gly Gly Arg Trp
          50          55          60
Ser His Pro Gln Phe Glu Lys Ala Ala Ala Pro Ala Pro Asn Met Glu
          65          70          75          80
Asn Thr Thr Ser Gly Phe Leu Gly Pro Leu Leu Val Leu Gln Ala Gly
          85          90          95
Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser Leu Asp Ser
          100          105          110
Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Ala Pro Thr Cys Pro Gly
          115          120          125
Gln Asn Ser Gln Ser Pro Thr Ser Asn His Ser Pro Thr Ser Cys Pro
          130          135          140
Pro Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg Arg Phe Ile Ile
          145          150          155          160
Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu Val Leu Leu
          165          170          175
Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu Leu Pro Gly Thr Ser
          180          185          190
Thr Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr Ile Pro Ala Gln Gly

```

Sequence Listing.txt

195

200

205

Thr Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro Ser Asp Gly Asn
 210 215 220
 Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe Ala Arg Phe Leu
 225 230 235 240
 Trp Glu Trp Ala Ser Val Arg Phe Ser Trp Leu Ser Leu Leu Val Pro
 245 250 255
 Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp Leu Ser Val
 260 265 270
 Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr Asn Ile Leu Ser
 275 280 285
 Pro Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu Trp Val Tyr Ile
 290 295 300

<210> 168

<211> 912

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 168

```

atgggaggtt ggtcttccaa acctcggaaa ggcattggga cgaatctttc tgttcccaat 60
cctctgggat tctttcccga tcaccagttg gaccctgcgt tcggagccaa ctcaaacaat 120
ccagattggg acttcaaccc caacaaggat caatggccag aggcaaatca ggtaggagcg 180
ggcggccgct ggagccaccc gcagttcgaa aaagcggccg cccctgcacc gaacatggag 240
aacacaacat caggattcct aggacccctg ctcgtgttac aggcgggggt tttcttggtg 300
acaagaatcc tcacaatacc acagagtcta gactcgtggt ggacttctct caattttcta 360
gggggagcac ccacgtgtcc tggccaaaat tcgcagtccc caacctcaa tcactcacca 420
acctctgtc ctccaattg tcctggctat cgctggatgt gtctgcggcg ttttatcata 480
ttctcttca tcctgctgct atgcctcatc ttcttggttg ttcttctgga ctaccaaggt 540
atgttgccc tttgtcctct acttccagga acatcaacca ccagcacggg gccatgcaag 600
acctgcacga ttctgtctcg aggaacctct atgtttccct ctgtgtgctg tacaaaacct 660
tcggacggaa actgcacttg tattcccatc ccatactct gggctttcgc aagattccta 720
tgggagtggg cctcagtcgg tttctcctgg ctacgtttac tagtgccatt tgttcagtgg 780
ttcgtagggc tttccccac tgtttggtt tcagttatat ggatgatgtg gtattggggg 840
ccaagtctgt acaacatctt gagtcccttt ttacctctat taccaatttt cttttgtctt 900
tgggtataca tt                                     912
  
```

<210> 169

<211> 304

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 169

Met Gly Gly Trp Ser Ser Lys Pro Arg Lys Gly Met Gly Thr Asn Leu
 1 5 10 15

Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp His Gln Leu Asp Pro
 Page 123

Sequence Listing.txt

20

25

30

Ala Phe Gly Ala Asn Ser Asn Asn Pro Asp Trp Asp Phe Asn Pro Asn
 35 40 45
 Lys Asp Gln Trp Pro Glu Ala Asn Gln Val Gly Ala Gly Gly Arg Trp
 50 55 60
 Ser His Pro Gln Phe Glu Lys Ala Ala Ala Pro Ala Pro Asn Met Glu
 65 70 75 80
 Asn Thr Thr Ser Gly Phe Leu Gly Pro Leu Leu Val Leu Gln Ala Gly
 85 90 95
 Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser Leu Asp Ser
 100 105 110
 Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Ala Pro Thr Cys Pro Gly
 115 120 125
 Gln Asn Ser Gln Ser Pro Thr Ser Asn His Ser Pro Thr Ser Cys Pro
 130 135 140
 Pro Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg Arg Phe Ile Ile
 145 150 155 160
 Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu Val Leu Leu
 165 170 175
 Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu Leu Pro Gly Thr Ser
 180 185 190
 Thr Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr Ile Pro Ala Arg Gly
 195 200 205
 Thr Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro Ser Asp Gly Asn
 210 215 220
 Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe Ala Arg Phe Leu
 225 230 235 240
 Trp Glu Trp Ala Ser Val Arg Phe Ser Trp Leu Ser Leu Leu Val Pro
 245 250 255
 Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp Leu Ser Val
 260 265 270
 Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr Asn Ile Leu Ser
 275 280 285
 Pro Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu Trp Val Tyr Ile
 290 295 300

<210> 170

<211> 912

<212> DNA

<213> Artificial Sequence

<220>

 <223> Description of Artificial Sequence:Artificially
 synthesized sequence

Sequence Listing.txt

<400> 170

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atgggagggtt ggtcttccaa acctcggaaa ggcattggga cgaatctttc tgttcccaat 60
cctctgggat tctttcccga tcaccagttg gaccctgcgt tcggagccaa ctcaaacaat 120
ccagattggg acttcaaccc caacaaggat caatggccag aggcaaatca ggtaggagcg 180
ggcggccgct ggagccaccc gcagttcgaa aaagcggccg cccctgcacc gaacatggag 240
aacacaacat caggattcct aggacccctg ctcgtgttac aggcggggtt tttcttggtg 300
acaagaatcc tcacaatacc acagagtcta gactcgtggt ggacttctct caattttcta 360
gggggagcac ccacgtgtcc tggccaaaat tcgcagtccc caacctccaa tcactacca 420
acctcttgtc ctccaatttg tcctggctat cgctggatgt gtctgcggcg ttttatcata 480
ttcctcttca tcctgctgct atgcctcatc ttcttggttg ttcttctgga ctaccaaggt 540
atgttgcccg tttgtcctct acttccagga acatcaacca ccagcacggg gccatgcaag 600
acctgcacga ttctgtctca aggaacctct atgtttccct cttggtgctg tacaaaacct 660
tcggacagaa actgcacttg tattcccatc ccatcatcct gggctttcgc aagattccta 720
tgggagtggg cctcagtcgg tttctcctgg ctcagtttac tagtgccatt tgttcagtgg 780
ttcgtagggc tttcccccac tgtttggcct tcagttatat ggatgatgtg gtattggggg 840
ccaagtctgt acaacatctt gagtcccttt ttacctctat taccaatttt cttttgtctt 900
tgggtataca tt                                     912
```

<210> 171

<211> 304

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 171

```
Met Gly Gly Trp Ser Ser Lys Pro Arg Lys Gly Met Gly Thr Asn Leu
 1      5      10      15
Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp His Gln Leu Asp Pro
      20      25      30
Ala Phe Gly Ala Asn Ser Asn Asn Pro Asp Trp Asp Phe Asn Pro Asn
      35      40      45
Lys Asp Gln Trp Pro Glu Ala Asn Gln Val Gly Ala Gly Gly Arg Trp
      50      55      60
Ser His Pro Gln Phe Glu Lys Ala Ala Ala Pro Ala Pro Asn Met Glu
      65      70      75      80
Asn Thr Thr Ser Gly Phe Leu Gly Pro Leu Leu Val Leu Gln Ala Gly
      85      90      95
Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser Leu Asp Ser
      100      105      110
Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Ala Pro Thr Cys Pro Gly
      115      120      125
Gln Asn Ser Gln Ser Pro Thr Ser Asn His Ser Pro Thr Ser Cys Pro
      130      135      140
Pro Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg Arg Phe Ile Ile
      145      150      155      160
Phe Leu Phe Ile Leu Leu Cys Leu Ile Phe Leu Leu Val Leu Leu
      165      170      175
Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu Leu Pro Gly Thr Ser
```

Sequence Listing.txt

180

185

190

Thr Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr Ile Pro Ala Gln Gly
 195 200
 Thr Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro Ser Asp Arg Asn
 210 215 220
 Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe Ala Arg Phe Leu
 225 230 235 240
 Trp Glu Trp Ala Ser Val Arg Phe Ser Trp Leu Ser Leu Leu Val Pro
 245 250 255
 Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp Leu Ser Val
 260 265 270
 Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr Asn Ile Leu Ser
 275 280 285
 Pro Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu Trp Val Tyr Ile
 290 295 300

<210> 172

<211> 912

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 172

```

atgggagggtt ggtcttccaa acctcggaaa ggcattgggga cgaatctttc tgttcccaat 60
cctctgggat tctttcccga tcaccagttg gaccctgcgt tcggagccaa ctcaaacaat 120
ccagattggg acttcaaccc caacaaggat caatggccag aggcaaatca ggtaggagcg 180
ggcggccgct ggagccaccc gcagttcgaa aaagcggccg cccctgcacc gaacatggag 240
aacacaacat caggattcct aggacccctg ctctgtgttac aggcgggggtt tttcttggtg 300
acaagaatcc tcacaatacc acagagtcta gactcgtggt ggacttctct caattttcta 360
gggggagcac ccacgtgtcc tggccaaaat tcgcagtccc caacctccaa tcactcacca 420
acctctgtc tcacaatttg tcctggctat cgctggatgt gtctgcggcg ttttatcata 480
ttctcttca tcctgctgct atgcctcatc ttcttggttg ttcttctgga ctaccaaggt 540
atgttgcccg tttgtcctct acttccagga acatcaacca ccagcacggg gccatgcaag 600
acctgcacga ttctgtctcg aggaacctct atgtttccct cttgttgctg tacaaaacct 660
tcggacagaa actgcacttg tattcccatc ccatcatcct gggctttcgc aagattccta 720
tgggagtggg cctcagtcctg tttctcctgg ctcagtttac tagtgccatt tgttcagtg 780
ttcgtagggc tttccccac tgtttggtt tcagttatat ggatgatgtg gtattggggg 840
ccaagtctgt acaacatctt gagtcccttt ttacctctat taccaatttt cttttgtctt 900
tgggtataca tt                                     912
  
```

<210> 173

<211> 304

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 173

Met Gly Gly Trp Ser Ser Lys Pro Arg Lys Gly Met Gly Thr Asn Leu

Sequence Listing.txt

```

1           5           10           15
Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp His Gln Leu Asp Pro
20          25          30
Ala Phe Gly Ala Asn Ser Asn Asn Pro Asp Trp Asp Phe Asn Pro Asn
35          40          45
Lys Asp Gln Trp Pro Glu Ala Asn Gln Val Gly Ala Gly Gly Arg Trp
50          55          60
Ser His Pro Gln Phe Glu Lys Ala Ala Ala Pro Ala Pro Asn Met Glu
65          70          75
Asn Thr Thr Ser Gly Phe Leu Gly Pro Leu Leu Val Leu Gln Ala Gly
85          90          95
Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser Leu Asp Ser
100         105        110
Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Ala Pro Thr Cys Pro Gly
115        120        125
Gln Asn Ser Gln Ser Pro Thr Ser Asn His Ser Pro Thr Ser Cys Pro
130        135        140
Pro Ile Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg Arg Phe Ile Ile
145        150        155        160
Phe Leu Phe Ile Leu Leu Cys Leu Ile Phe Leu Leu Val Leu Leu
165        170        175
Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu Leu Pro Gly Thr Ser
180        185        190
Thr Thr Ser Thr Gly Pro Cys Lys Thr Cys Thr Ile Pro Ala Arg Gly
195        200        205
Thr Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro Ser Asp Arg Asn
210        215        220
Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe Ala Arg Phe Leu
225        230        235        240
Trp Glu Trp Ala Ser Val Arg Phe Ser Trp Leu Ser Leu Leu Val Pro
245        250        255
Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp Leu Ser Val
260        265        270
Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr Asn Ile Leu Ser
275        280        285
Pro Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu Trp Val Tyr Ile
290        295        300

```

<210> 174

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 174

```

atggcctcgt acccccgcca tcaacacgcg tctgcgttcg accaggctgc gcgttctcgc 60
ggccatagca accgacgtac ggcgttcgcg cctcgccggc agcaagaagc cacggaagtc 120
cgcccggagc agaaaatgcc cacgctactg cgggtttata tagacggtcc ccacgggatg 180
gggaaaacca ccaccacgca actgctggtg gccctgggtt cgcgcgacga tatcgtctac 240
gtacccgagc cgatgactta ctggcgggtg ctgggggctt ccgagacaat cgcgaacatc 300
tacaccacac aacaccgcct cgaccagggt gagatatcgg ccggggacgc ggcggtggta 360
atgacaagcg cccagataac aatgggcatg ccttatgccg tgaccgacgc cgttctggct 420
cctcatatcg ggggggaggc tgggagctca catgccccgc ccccgccct caccctcatc 480
ttcgaccgcg atcccatcgt cgccctcctg tgctaccggg ccgcgcggtg ccttatgggc 540
agcatgaccc cccaggcgtg gctggcgctt gtggccctca tcccgcgac cttgcccggc 600
accaacatcg tgcttggggc cttccggag gacagacaca tcgaccgcct ggccaaacgc 660
cagcgccccg gcgagcggct ggacctggct atgctggctg cgattcgccg cgtttacggg 720
ctacttgcca atacggtgcg gtatctgcag tgcggcgggt cgtggcggga ggactgggga 780
cagctttcgg ggacggccgt gccgccccag ggtgccgagc cccagagcaa cgcgggcccc 840
cgaccccata tcggggacac gttatttacc ctgtttcggg cccccgagtt gctggccccc 900
aacggcgacc tgtataacgt gtttgccctg gccttggacg tcttggccaa acgcctccgt 960
tccatgcacg tctttatcct ggattacgac caatcgcccc ccggtgccg ggacgccctg 1020
ctgcaactta cctccgggat ggtccagacc cacgtcacca ccccggtc ccataccgacg 1080
atatgcgacc tggcgcgcac gtttgcccgg gagatggggg aggctaac 1128

```

<210> 175

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 175

```

atggcctcgt acccctgcca tcaacacgcg tctgcgttcg accaggctgc gcgttctcgc 60
ggccatagca accgacgtac ggcgttcgcg cctcgccggc agcaagaagc cacggaagtc 120
cgccctggagc agaaaatgcc cacgctactg cgggtttata tagacggtcc tcacgggatg 180
gggaaaacca ccaccacgca actgctggtg gccctgggtt cgcgcgacga tatcgtctac 240
gtacccgagc cgatgactta ctggcagggt ctgggggctt ccgagacaat cgcgaacatc 300
tacaccacac aacaccgcct cgaccagggt gagatatcgg ccggggacgc ggcggtggta 360
atgacaagcg cccagataac aatgggcatg ccttatgccg tgaccgacgc cgttctggct 420
cctcatgctg ggggggaggc tgggagttca catgccccgc ccccgccct caccctcatc 480
ttcgaccgcg atcccatcgt cgccctcctg tgctaccggg ccgcgcgata ccttatgggc 540
agcatgaccc cccaggcgtg gctggcgctt gtggccctca tcccgcgac cttgcccggc 600
acaaacatcg tgttgggggc cttccggag gacagacaca tcgaccgcct ggccaaacgc 660
cagcgccccg gcgagcggct tgacctggct atgctggccg cgattcgccg cgtttacggg 720
ctgcttgcca atacggtgcg gtatctgcag ggcggcgggt cgtggtggga ggattgggga 780
cagctttcgg ggacggccgt gccgccccag ggtgccgagc cccagagcaa cgcgggcccc 840
cgaccccata tcggggacac gttatttacc ctgtttcggg cccccgagtt gctggccccc 900
aacggcgacc tgtataacgt gtttgccctg gccttggacg tcttggccaa acgcctccgt 960
cccatgcacg tctttatcct ggattacgac caatcgcccc ccggtgccg ggacgccctg 1020
ctgcaactta cctccgggat ggtccagacc cacgtcacca ccccggtc ccataccgacg 1080
atctgcgacc tggcgcgcac gtttgcccgg gagatggggg aggctaac 1128

```

<210> 176

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially

Sequence Listing.txt

synthesized sequence

```

<400> 176
atggcttcgt accccgagca tcaacacgcg tctgcgttcg accaggctgc gcgttctcgc 60
ggccatagca accgacgtac ggcgttgccg cctcgccggc agcaagaagc cacggaagtc 120
cgcccggagc agaaaatgcc cacgctactg cgggtttata tagacggtcc ccacgggatg 180
gggaaaacca ccaccacgca actgctgggt gccctgggtt cgcgcgacga tatcgtctac 240
gtacccgagc cgatgactta ctggcgggtg ctgggggctt ccgagacaat cgcgaacatc 300
tacaccacac aacaccgcct cgaccagggt gagatatcgg ccggggacgc ggcggtggtg 360
atgacaagcg cccagataac aatgggcatg ccttatgccg tgaccgacgc cgttctggct 420
cctcatatcg ggggggagggc tgggagctca catgccccgc ccccgccctt caccctcatc 480
ttcgaccgcc atcccatcgc cgccctcctg tgctaccggg ccgcgcggtg ccttatgggc 540
agcatgaccc cccaggccgt gctggcggtt gtggccctca tcccgccgac cttgcccggc 600
accaacatcg tgcctggggc ccttccggag gacagacaca tcgaccgcct ggccaaacgc 660
cagcgcgccg gcgagcggct ggacctggct atgctggctg cgattcgccg cgtttacggg 720
ctacttgcca atacggtgcg gtatctgcag tgcggcgggt cgtggcggga ggactgggga 780
cagctttcgg ggacggccgt gccgccccag ggtgccgagc cccagagcaa cgcgggcccc 840
cgaccccata tcggggacac gttatttacc ctgtttcggg cccccgagtt gctggccccc 900
aacggcgacc tgtataacgt gtttgccctg gccttgacg tcttgcccaa acgcctccgt 960
tccatgcacg tctttatcct ggattacgac caatgcgccg ccggctgccg ggacgccctg 1020
ctgcaactta cctccgggat ggtccagacc cacgtcacca ccccggtc ccatccgacg 1080
atatgcgacc tggcgcgcac gtttgcccgg gagatggggg aggctaac 1128

```

<210> 177

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

```

<400> 177
atggcttcgt acccctgcca tcaacacgcg tctgcgttcg accaggctgc gcgttctcgc 60
ggccatagca accgacgtac ggcgttgccg cctcgccggc agcaagaagc cacggaagtc 120
cgcttgagc agaaaatgcc cacgctactg cgggtttata tagacggtcc tcacgggatg 180
gggaaaacca ccaccacgca actgctgggt gccctgggtt cgcgcgacga tatcgtctac 240
gtacccgagc cgatgactta ctggcagggt ctgggggctt ccgagacaat cgcgaacatc 300
tacaccacac aacaccgcct cgaccagggt gagatatcgg ccggggacgc ggcggtggtg 360
atgacaagcg cccagataac aatgggcatg ccttatgccg tgaccgacgc cgttctggct 420
cctcatatcg ggggggagggc tgggagctca catgccccgc ccccgccctt caccctcatc 480
ttcgaccgcc atcccatcgc cgccctcctg tgctaccggg ccgcgcgata ccttatgggc 540
agcatgaccc cccaggccgt gctggcggtt gtggccctca tcccgccgac cttgcccggc 600
acaaacatcg tgttgggggc ccttccggag gacagacaca tcgaccgcct ggccaaacgc 660
cagcgcgccg gcgagcggct tgacctggct atgctggccg cgattcgccg cgtttacggg 720
ctgcttgcca atacggtgcg gtatctgcag ggcgccgggt cgtggcggga ggattgggga 780
cagctttcgg ggacggccgt gccgccccag ggtgccgagc cccagagcaa cgcgggcccc 840
cgaccccata tcggggacac gttatttacc ctgtttcggg cccccgagtt gctggccccc 900
aacggcgacc tgtataacgt gtttgccctg gccttgacg tcttgcccaa acgcctccgt 960
cccatgcacg tctttatcct ggattacgac caatgcgccg ccggctgccg ggacgccctg 1020
ctgcaactta cctccgggat ggtccagacc cacgtcacca ccccggtc ccatccgacg 1080
atctgcgacc tggcgcgcac gtttgcccgg gagatggggg aggctaac 1128

```

<210> 178

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

Sequence Listing.txt

<400> 178

```
atggcttcgt accccggcca tcagcacgcg tctgcgttcg accaggctgc gcgttctcgc 60
ggccatagca accgacgtac ggcgttgccg cctcgccggc agcaagaagc cacggaagtc 120
cgaccggagc agaaaatgcc cacgctactg cgggtttata tagacggtcc ccacgggatg 180
gggaaaacca ccaccacgca actgctgggtg gccctggggt cgcgcgacga tatcgtctac 240
gtacccgagc cgatgactta ctggcggggtg ttcgggggctt ccgagacaat cgcgaacatc 300
tacaccacac aacaccgcct cgaccagggt gagatatcgg ccggggacgc ggcggtggtg 360
atgacaagcg cccagataac aatgggcatg ctttatgccg tgaccgacgc cgttctggct 420
cctcatatcg ggggggaggc tgggagctca catgccccgc ccccgccct caccctcatc 480
ttcgaccgcc atcccatcgc cgccctcctg tgctaccggc ccgcgcgata ctttatgggc 540
agcatgacct cccaggccgt gctggcggtc gtggccctca tcccgcgcac cttgcccggc 600
acaaacatcg tgttgggggc cttccggag gacagacaca tcgaccgcct ggccaaacgc 660
cagcgccccg gcgagcggct tgacctggct atgctggccg cgattcgccg cgtttacggg 720
ctgcttgcca atacggtgcg gtatctgcag ggcggggggt cgtggcgga ggattgggga 780
cagcttctcg ggacggccgt gccgccccag ggtgccgagc cccagagcaa cgcgggcca 840
cgaccccaca tcggggacac gttatttacc ctgtttcggg cccccgagtt gctggcccc 900
aacggcgacc tgtataacgt gtttgccctg gccttgagc tcttgccaa acgcctcctg 960
cccattgcac tctttatcct ggattacgac caatcgccc cggtctgccc ggacgccctg 1020
ctgcaactta cctccgggat ggtccagacc cacgtacca cccaggctc cataccgacg 1080
atctgcgacc tggcgcgcac gtttggcccg gagatggggg aggctaac 1128
```

<210> 179

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 179

```
atggcttcgt acccctgcca tcaacacgcg tctgcgttcg accaggctgc gcgttctcgc 60
ggccatagca accgacgtac ggcgttgccg cctcgccggc agcaagaagc cacggaagtc 120
cgcttgagc agaaaatgcc cacgctactg cgggtttata tagacggtcc tcacgggatg 180
gggaaaacca ccaccacgca actgctgggtg gccctggggt cgcgcgacga tatcgtctac 240
gtacccgagc cgatgactta ctggcggggtg ttcgggggctt ccgagacaat cgcgaacatc 300
tacaccacac aacaccgcct cgaccagggt gagatatcgg ccggggacgc ggcggtggtg 360
atgacaagcg cccagataac aatgggcatg ctttatgccg tgaccgacgc cgttctggct 420
cctcatatcg ggggggaggc tgggagctca catgccccgc ccccgccct caccctcatc 480
ttcgaccgcc atcccatcgc cgccctcctg tgctaccggc ccgcgcgata ctttatgggc 540
agcatgacct cccaggccgt gctggcggtc gtggccctca tcccgcgcac cttgcccggc 600
acaaacatcg tgttgggggc cttccggag gacagacaca tcgaccgcct ggccaaacgc 660
cagcgccccg gcgagcggct tgacctggct atgctggccg cgattcgccg cgtttacggg 720
ctgcttgcca atacggtgcg gtatctgcag ggcggggggt cgtggcgga ggattgggga 780
cagcttctcg ggacggccgt gccgccccag ggtgccgagc cccagagcaa cgcgggcca 840
cgaccccata tcggggacac gttatttacc ctgtttcggg cccccgagtt gctggcccc 900
aacggcgacc tgtataacgt gtttgccctg gccttgagc tcttgccaa acgcctcctg 960
cccattgcac tctttatcct ggattacgac caatcgccc cggtctgccc ggacgccctg 1020
ctgcaactta cctccgggat ggtccagacc cacgtacca cccaggctc cataccgacg 1080
atctgcgacc tggcgcgcac gtttggcccg gagatggggg aggctaac 1128
```

<210> 180

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

Sequence Listing.txt

<400> 180

```

atggcttcgt acccctgcca tcaacacgcg tctgcgttcg accaggctgc gcgttctcgc 60
ggccatagca accgacgtac ggcgttgccg cctcgccggc agcaagaagc cacggaagtc 120
cgcctggagc agaaaatgcc cacgctactg cgggtttata tagacggtcc tcacgggatg 180
gggaaaacca ccaccacgca actgctgggt gccctggggt cgcgcgacga tatcgtctac 240
gtacccgagc cgatgactta ctggcagggt ctgggggctt ccgagacaat cgcgaacatc 300
tacaccacac aacaccgcct cgaccagggt gagatatcgg ccggggacgc ggcggtggtg 360
atgacaagcg ccagataaac aatgggcatg ccttatgccg tgaccgacgc cgttctggct 420
cctcatatcg ggggggaggg tgggagctca catgccccgc ccccgccctt caccctcatc 480
ttcgaccgcc atcccatcgc cgccctcctg tgctacccgg ccgcgcgata ccttatgggc 540
agcatgacct cccaggccgt gctggcgctt gtggccctca tcccgccgac cttgcccggc 600
acaaacatcg tgttgggggc ctttccggag gacagacaca tcgaccgcct ggccaaacgc 660
cagcgccccg gcgagcggct tgacctggct atgctggccg cgattcgccg cgtttacggg 720
ctgcttgcca atacggtgcg gtatctgcag ggcggcgggt cgtggcggga ggattgggga 780
cagctttcgg ggacggccgt gccgccccag ggtgccgagc cccagagcaa cgcgggcccc 840
cgaccccata tcggggacac gttatttacc ctgtttcggg cccccgagtt gctggcccc 900
aacggcgacc tgtataacgt gtttgccctg gccttgacg tcttgccaa acgcctccgt 960
cccatgcacg tctttatcct ggattacgac caatcgccc cggctgccg ggacgccctg 1020
ctgcaactta cctccgggat ggtccagacc cacgtcacca cccaggctc cataccgacg 1080
atctgcgacc tggcgcgcac gtttgcccgg gagatggggg aggctaac 1128

```

<210> 181

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 181

```

atggcttcgt acccctgcca tcaacacgcg tctgcgttcg accaggctgc gcgttctcgc 60
ggccatagca accgacgtac ggcgttgccg cctcgccggc agcaagaagc cacggaagtc 120
cgcctggagc agaaaatgcc cacgctactg cgggtttata tagacggtcc tcacgggatg 180
gggaaaacca ccaccacgca actgctgggt gccctggggt cgcgcgacga tatcgtctac 240
gtacccgagc cgatgactta ctggcagggt ctgggggctt ccgagacaat cgcgaacatc 300
tacaccacac aacaccgcct cgaccagggt gagatatcgg ccggggatgc ggcggtggtg 360
atgacaagcg ccagataaac aatgggcatg ccttatgccg tgaccgacgc cgttctggct 420
cctcatatcg ggggggaggg tgggagctca catgccccgc ccccgccctt caccctcatc 480
ttcgaccgcc atcccatcgc cgccctcctg tgctacccgg ccgcgcgata ccttatgggc 540
agcatgacct cccaggccgt gctggcgctt gtggccctca tcccgccgac cttgcccggc 600
acaaacatcg tgttgggggc ctttccggag gacagacaca tcgaccgcct ggccaaacgc 660
cagcgccccg gcgagcggct tgacctggct atgctggccg cgattcgccg cgtttacggg 720
ctgcttgcca atacggtgcg gtatctgcag ggcggcgggt cgtggcggga ggattgggga 780
cagctttcgg ggacggccgt gccgccccag ggtgccgagc cccagagcaa cgcgggcccc 840
cgaccccata tcggggacac gttatttacc ctgtttcggg cccccgagtt gctggcccc 900
aacggcgacc tgtataacgt gtttgccctg gccttgacg tcttgccaa acgcctccgt 960
cccatgcacg tctttatcct ggattacgac caatcgccc cggctgccg ggacgccctg 1020
ctgcaactta cctccgggat ggtccagacc cacgtcacca cccaggctc cataccgacg 1080
atctgcgacc tggcgcgcac gtttgcccgg gagatggggg aggctaac 1128

```

<210> 182

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 182

Sequence Listing.txt

```

atggcttcgt acccctgcca tcaacacgcg tctgcgttcg accaggctgc gcgttctcgc 60
ggccataaca accgacgtac ggcgttgccg cctcgccggc agcaagaagc cacggaagtc 120
cgcctggagc agaaaatgcc cacgctactg cgggtttata tagacggtcc tcacgggatg 180
gggaaaacca ccaccacgca actgctgggtg gccctgggtt cgcgcgacga tatcgtctac 240
gtacccgagc cgatgactta ctggcagggt ctgggggctt ccgagacaat cgcgaacatc 300
tacaccacac aacaccgcct cgaccagggt gagatatcgg ccggggatgc ggcggtggtg 360
atgacaagcg cccagataac aatgggcatg ccttatgccg taaccgacgc cgttctggct 420
cctcatatcg ggggggaggc tgggagctca catgccccgc ccccgccctt caccctcatc 480
ttcgaccgcc atcccatcgc cgccctcctg tgctacccgg ccgcgcgata ccttatgggc 540
agcatgaccc cccaggccgt gctggcgctt ttggccctca tcccgccgac cttgcccggc 600
acaaacatcg tgttgggggc ctttccggag gacagacaca tcgaccgcct ggccaaacgc 660
cagcgccccg gcgagcggct tgacctggct atgctggccg cgattcgccg cgtttacggg 720
ctgcttgcca atacggtgcg gtatctgcag ggcggcgggt cgtggcggga ggattgggga 780
cagctttcgg ggacggccgt gccgccccag ggtgccgagc cccagagcaa cgcgggcccc 840
cgaccccata tcgggggacac gttatttacc ctgtttcggg cccccgagtt gctggcccc 900
aacggcgacc tgtataacgt gtttgccctg gccttgacg tcttgccaa acgcctccgt 960
cccatgcacg tctttatcct ggattacgac caatcgccc cggctgccg ggacgccctg 1020
ctgcaactta cctccgggat ggtccagacc cacgtacca cccaggctc cataccgacg 1080
atctgcgacc tggcgcgcac gtttgcccgg gagatggggg aggctaac 1128

```

<210> 183

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 183

```

atggcttcgt acccctgcca tcaacacgcg tctgcgttcg accaggctgc gcgttctcgc 60
ggccatagca accgacgtac ggcgttgccg cctcgccggc agcaagaagc cacggaagtc 120
cacctggagc agaaaatgcc cacgctactg cgggtttata tagacggtcc tcacgggatg 180
gggaaaacca ccaccacgca actgctgggtg gccctgggtt cgcgcgacga tatcgtctac 240
gtacccgagc cgatgactta ctggcagggt ctgggggctt ccgagacaat cgcgaacatc 300
tacaccacac aacaccgcct cgaccagggt gagatatcgg ccggggacgc ggcggtggtg 360
atgacaagcg cccagataac aatgggcatg ccttatgccg tgaccgacgc cgttctggct 420
cctcatatcg ggggggaggc tgggagctca catgccccgc ccccgccctt caccctcatc 480
ttcgaccgcc atcccatcgc cgccctcctg tgctacccgg ccgcgcgata ccttatgggc 540
agcatgaccc cccaggccgt gctggcgctt gtggccctca tcccgccgac cttgcccggc 600
acaaacatcg tgttgggggc ctttccggag gacagacaca tcgaccgcct ggccaaacgc 660
cagcgccccg gcgagcggct tgacctggct atgctggccg cgattcgccg cgtttacggg 720
ctgcttgcca atacggtgcg gtatctgcag ggcggcgggt cgtggcggga ggattgggga 780
cagctttcgg ggacggccgt gccaccccag ggtgccgagc cccagagcaa cgcgggcccc 840
cgaccccata tcgggggacac gttatttacc ctgtttcggg cccccgagtt gctggcccc 900
aacggcgacc tgtataacgt gtttgccctg gccttgacg tcttgccaa acgcctccgt 960
cccatgcacg tctttatcct ggattacgac caatcgccc cggctgccg ggacgccctg 1020
ctgcaactta cctccgggat ggtccagacc cacgtacca cccaggctc cataccgacg 1080
atctgcgacc tggcgcgcac gtttgcccgg gagatggggg aggctaac 1128

```

<210> 184

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 184

```

atggcttcgt acccctgcca tcaacacgcg tctgcgttcg accaggctgc gcgttctcgc 60

```


Sequence Listing.txt

```

ggccatagca accgacgtac ggcgttgccg cctcgccggc agcaagaagc cacggaagtc 120
cgcttgaggc agaaaatgcc cacgctactg cgggtttata tagacggtcc tcacgggatg 180
gggaaaacca ccaccacgca actgctgggt gccctgggtt cgcgcgacga tatcgtctac 240
gtacccgagc cgatgactta ctggcagggt ctgggggctt ccgagacaat cgcgaacatc 300
tacaccacac aacaccgcct cgaccagggt gagatatcgg ccggggacgc ggcggtggtg 360
atgacaagcg cccagataac aatgggcatg ccttatgccg tgaccgacgc cgttctggct 420
cctcatatcg ggggggaggc tgggagctca catgccccgc ccccgccctt caccctcatc 480
ttcgaccgcc atcccatcgc cgccctcctg tgctaccggg ccgcgcgata ccttatgggc 540
agcatgaccc cccaggccgt gctggcgctt gtggccctca tcccgcgcac cttgcccggc 600
acaaacatcg tggtgggggc ccttccagag gacaaacaca tcgaccgcct ggccaaacgc 660
cagcgccccg gcgagcggct tgacctggct atgctggccg cgattcgccg cgtttacggg 720
ctgcttgctc atacggtgcg gtatctgcag ggcggcgggt cgtggcggga ggattgggga 780
cagctttcgg ggacggccgt gccgccccag ggtgccgagc cccagagcaa cgcgggcccc 840
cgaccccata tcgggggacac gttatttacc ctgtttcggg cccccgagtt gctggcccc 900
aacggcgacc tgtataacgt gtttgccctg gccttgagc tcttgccaa acgcctccgt 960
cccatgcacg tctttatcct ggattacgac caatcgcccg ccggctgccg ggacgccctg 1020
ctgcaactta cctccgggat ggtccagacc cacgtcacca cccaggctc cataccgacg 1080
atctgcgacc tggcgcgcac gtttgcccgg gagatggggg aggctaac 1128

```

<210> 185

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 185

```

atggcttcgt acccctgcca tcaacacgcg tctgcgttcg accaggctgc gcgttctcgc 60
ggccatagca accgacgtac ggcgttgccg cctcgccggc agcaagaagc cacggaagtc 120
cgcttgaggc agaaaatgcc cacgctactg cgggtttata tagacggtcc tcacgggatg 180
gggaaaacca ccaccacgca actgctgggt gccctgggtt cgcgcgacga tatcgtctac 240
gtacccgagc cgatgactta ctggcagggt ctgggggctt ccgagacaat cgcgaacatc 300
tacaccacac aacaccgcct cgaccagggt gagatatcgg ccggggacgc ggcggtggtg 360
atgacaagcg cccagataac aatgggcatg ccttatgccg tgaccgacgc cgttctggct 420
cctcatatcg ggggggaggc tgggagctca catgccccgc ccccgccctt caccctcatc 480
ttcgaccgcc atcccatcgc cgccctcctg tgctaccggg ccgcgcgata ccttatgggc 540
agcatgaccc cccaggccgt gctggcgctt gtggccctca tcccgcgcac cttgcccggc 600
acaaacatcg tggtgggggc ccttccggag gacagacaca tcgaccgcct ggccaaacgc 660
cagcgccccg gcgagcggct tgacctggct atgctggccg cgattcgccg cgtttacggg 720
ctgcttgcca atacggtgcg gtatctgcag ggcggcgggt cgtggcggga ggattgggga 780
cagctttcgg ggacggccgt gccgccccag ggtgccgagc cccagagcaa cgcgggcccc 840
cgaccccata tcgggggacac gttatttacc ctgtttcggg cccccgagtt gctggcccc 900
aacggcgacc tgtataacgt gtttgccctg gccttgagc tcttgccaa acgcctccgt 960
cccatgcacg tctttatcct ggattacgac caatcgcccg ccggctgccg ggacgccctg 1020
ctgcaactta cctccgggat ggtccagacc cacgtcacca cccaggctc cataccgacg 1080
atctgcgacc tggcgcgcac gtttgcccgg gagatggggg aggctaac 1128

```

<210> 186

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 186

```

atggcttcgt acccctgcca tcaacacgcg tctgcgttcg accaggctgc gcgttctcgc 60
ggccatagca accgacgtac ggcgttgccg cctcgccggc agcaagaagc cacggaagtc 120

```

Sequence Listing.txt

```

cgccctggagc agaaaatgcc cacgctactg cgggtttata tagacggtcc tcacgggatg 180
gggaaaacca ccaccacgca actgctggtg gccctgggtt cgcgcgacga tatcgtctac 240
gtacccgagc cgatgactta ctggcaggtg ctgggggctt ccgagacaat cgcgaacatc 300
tacaccacac aacaccgcct cgaccaggtg gagatatcgg ccggggacgc ggcggtggta 360
atgacaagcg cccagataac aatgggcatg ccttatgccc tgaccgacgc cgttctggct 420
cctcatatcg ggggggaggc tgggagctca catgccccgc ccccgccctt caccctcatc 480
ttcgaccgcc atcccatcgc cgccctcctg tgctaccgga ccgcgcgata ccttatgggc 540
agcatgaccc cccaggccgt gctggcgctt gtggccctca tcccgccgac cttgcccggc 600
acaaacatcg tgttgggggc ccttccggag gacagacaca ttgaccgcct ggccaaacgc 660
cagcgccccg gcgagcggct tgacctggct atgctagccg cgattcgccg cgtttacggg 720
ctgcttgcca atacggtgcg gtatctgcag ggcggcgggt cgtggcggga ggattgggga 780
cagctttcgg ggacggccgt gccgccccag ggtgccgagc cccagagcaa cgcgggcccc 840
cgaccccata tcggggacac gttatttacc ctgtttcggg cccccgagtt gctggcccc 900
aacggcgacc tgtataacgt gtttgccctg gccttgagcg tcttgccaa acgcctccgt 960
cccatgcacg tctttatcct ggattacgac caatcgcccg ccggtgcccg ggacgccctg 1020
ctgcaactta cctccgggat ggtccagacc cacgtcacca cccaggctc cataccgacg 1080
atctgcgacc tggcgcgac gtttgcccgg gagatggggg aggctaac 1128

```

<210> 187

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 187

```

atggcttcgt acccctgcca tcaacacgcg tctgcgttcg accaggctgc gcgttctcgc 60
ggccatagca accgacgtac ggcgttcgcg cctcgccggc agcaagaagc cacggaagtc 120
cgccctggagc agaaaatgcc cacgctactg cgggtttata tagacggtcc tcacgggatg 180
gggaaaacca ccaccacgca actgctggtg gccctgggtt cgcgcgacga tatcgtctac 240
gtacccgagc cgatgactta ctggcaggtg ctgggggctt ccgagacaat cgcgaacatc 300
tacaccacac aacaccgcct cgaccaggtg gagatatcgg ccggggacgc ggcggtggta 360
atgacaagcg cccagataac aatgggcatg ccttatgccc tgaccgacgc cgttctggct 420
cctcatatcg ggggggaggc tgggagctca catgccccgc ccccgccctt caccctcatc 480
ttcgaccgcc atcccatcgc cgccctcctg tgctaccgga ccgcgcgata ccttatgggc 540
agcatgaccc cccaggccgt gctggcgctt gtggccctca tcccgccgac cttgcccggc 600
acaaacatcg tgttgggggc ccttccggag gacagacaca ttgaccgcct ggccaaacgc 660
cagcgccccg gcgagcggct tgacctggct atgctggccg cgattcgccg cgtttacggg 720
ctgcttgcca atacggtgcg gtatctgcag ggcggcgggt cgtggcggga ggattgggga 780
cagctttcgg ggacggccgt gccgccccag ggtgccgagc cccagagcaa cgcgggcccc 840
cgaccccata tcggggacac gttatttacc ctgtttcggg cccccgagtt gctggcccc 900
aacggcgacc tgtataacgt gtttgccctg gccttgagcg tcttgccaa acgcctccgt 960
cccatgcacg tctttatcct ggattacgac caatcgcccg ccggtgcccg ggacgccctg 1020
ctgcaactta cctccgggat ggtccagacc cacgtcacca cccaggctc cataccgacg 1080
atctgcgacc tggcgcgac gtttgcccgg gagatggggg aggctaac 1128

```

<210> 188

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 188

```

atggcttcgt acccctgcca tcaacacgcg tctgcgttcg accaggctgc gcgttctcgc 60
ggccatagca accgacgtac ggcgttcgcg cctcgccggc agcaagaagc cacggaagtc 120
cgccctggagc agaaaatgcc cacgctactg cgggtttata tagacggtcc tcacgggatg 180

```

Sequence Listing.txt

```

gggaaaacca ccaccacgca actgctggtg gccctgggtt cgcgcgacga tatcgtctac 240
gtaccccgagc cgatgactta ctggcaggtg ctgggggctt ccgagacaat cgcgaacatc 300
tacaccacac aacaccgcct cgaccaggtg gagatatcgg ccggggacgc ggcggtggtg 360
atgacaagcg cccagataac aatgggcatg ccttatgccg tgaccgacgc cgttctggct 420
cctcataatcg ggggggaggc tgggagctca catgccccgc ccccgccctt caccctcatc 480
ttcgaccgcc atcccatcgc cgccctcctt tgcataccgg ccgcgcgata ccttatgggc 540
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acaaacatcg tgttgggggc ccttcgggag gacagacaca ttgaccgcct ggccaaacgc 660
cagcgccccg gcgagcggct tgacctggct atgctggccg cgattcgccg cgtttacggg 720
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ctgcaactta cctccgggat ggtccagacc cacgtcacca cccaggtctc cataccgacg 1080
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```

<210> 189

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 189

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cgcttgagc agaaaatgcc cacgctactg cgggtttata tagacggtcc tcacgggatg 180
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<210> 190

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 190

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cgcttgagc agaaaatgcc cacgctactg cgggtttata tagacggtcc tcacgggatg 180
gggaaaacca ccaccacgca actgctggtg gccctgggtt cgcgcgacga tatcgtctac 240

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Sequence Listing.txt

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acaaacatcg tgttgggggc ccttccggag gacagacaca tcgaccgcct ggccaaacgc 660
cagcgccccg gcgagcggct tgacctggct atgctagccg cgattcgccg cgtttacggg 720
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cccattgcag tctttatcct ggattacgac caatcgccc cggctgccg ggacgccctg 1020
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<210> 191

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 191

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cgcttgagc agaaaatgcc cagctactg cgggtttata tagacggtcc tcacgggatg 180
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gtacccgagc cgatgactta ctggcaggtg ctgggggctt ccgagacaat cgcgaacatc 300
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<210> 192

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 192

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cgcttgagc agaaaatgcc cagctactg cgggtttata tagacggtcc tcacgggatg 180
gggaaaacca ccaccacgca actgctgggt gccctgggtt cgcgcgacga tatcgtctac 240
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Sequence Listing.txt

tacaccacac	aacaccgcct	cgaccagggt	gagatatcgg	ccggggacgc	ggcgggtgta	360
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cctcataatcg	ggggggaggc	tgggagctca	catgccccgc	ccccggccct	catcctcatc	480
ttcgaccgcc	atcccatcgc	cgccctcctg	tgctaccggg	ccgcgcgata	ccttatgggc	540
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acaaacatcg	tgttgggggc	ccttccggag	gacagacaca	tcgaccgcct	ggccaaacgc	660
cagcgccccg	gcgagcggct	tgacctggct	atgctagccg	cgattcgccg	cgtttacggg	720
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cagctttcgg	ggacggccgt	gccgccccag	ggtgccgagc	cccagagcaa	cgcgggccca	840
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aacggcgacc	tgtataacgt	gtttgcctgg	gccttgagcg	tcttgggcaa	acgcctccgt	960
cccatgcacg	tctttatcct	ggattacgac	caatcgcccc	ccggctgccg	ggacgccctg	1020
ctgcaactta	cctccgggat	ggtccagacc	cacgtcacca	ccccaggctc	cataccgacg	1080
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<210> 193

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 193

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cgcttgagc	agaaaatgcc	cacgctactg	cggttttata	tagacggtcc	tcacgggatg	180
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tacaccaccc	aacaccgcct	cgaccagggt	gagatatcgg	ccggggacgc	ggcgggtgta	360
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cagcgccccg	gcgagcggct	tgacctggct	atgctggccg	cgattcgccg	cgtttacggg	720
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<210> 194

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 194

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Sequence Listing.txt

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<210> 195

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 195

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<210> 196

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 196

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tacaccacac aacaccgcct cgaccagggt gagatatcgg ccggggacgc ggcggtggtg 360
atgacaagcg cccagataac aatgggcatg ccttatgccg tgaccgacgc cgttctggct 420

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Sequence Listing.txt

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<212> DNA

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<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 197

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<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 198

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atgacaagcg cccagataac aatgggcatg ccttatgccg tgaccgacgc cgttctggct 420
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Sequence Listing.txt

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<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 199

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atgacaagcg cccagataac aatgggcatg ccttatgccg tgaccgacgc cgttctggct 420
cctcatatcg ggggggaggc tgggagctca catgccccgc ccccgccct cgcctcctc 480
ttcgaccgcy atcccatcgc cgccctcctg tgctaccggy ccgcgcgata ccttatgggc 540
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acaaacatcg tgttgggggc ccttccggag gacagacaca tcgaccgcct ggccaaacgc 660
cagcgccccg gcgagcggct tgacctggct atgctggccg cgattcgccg cgtttacggg 720
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cagctttcgg ggacggccgt gccgccccag ggtgccgagc cccagagcaa cgcgggcccc 840
cgacccaca tcggggacac gttatttacc ctgtttcggg cccccgagtt gctggcccc 900
aacggcgacc tgtacaacgt gtttgccctg gccttgagc tcttgccaa acgcctccgt 960
cccatgcacg tctttatcct ggattacgac caatcgcccg ccggtgccg ggacgccctg 1020
ctgcaactta cctccgggat gatccagacc cacgtacca cccaggctc cataccgacg 1080
atctgcgacc tggcgcgcac gtttgcccgg gagatggggg aggctaac 1128

```

<210> 200

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 200

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atggcttcgt acccggcca tcagcacgcy tctgcgttcg accaggctgc gcgttctcgc 60
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cgcccgagc agaaaatgcc cacgctactg cgggtttata tagacggtcc ccacgggatg 180
gggaaaacca ccaccacgca actgctgggt gccctgggtt cgcgcgacga tatcgtctac 240
gtacccgagc cgatgactta ctggcgggtg ctgggggctt ccgagacaat cgcgaacatc 300
tacaccacac aacaccgcct cgaccagggt gagatatcgg ccggggacgc ggcggtggtg 360
atgacaagcg cccagataac aatgggcatg ccttatgccg tgaccgacgc cgttctggct 420
cctcatatcg ggggggaggc tgggagctca catgccccgc ccccgccct caccctcctc 480
ttcgaccgcy atcccatcgc cgccctcctg tgctaccggy ccgcgcgata ccttatgggc 540

```


Sequence Listing.txt

```

agcatgaccc cccaggccgt gctggcggtc gtggccctca tcccgccgac cttgcccggc 600
acaaacatcg tgttgggggc ccttcgggag gacagacaca tcgaccgcct ggccaaacgc 660
cagcgccccg gcgagcggct tgacctggct atgctggccg cgattcgccg cgtttacggg 720
ctgcttgcca atacggtgcg gtatctgcag ggcggcgggt cgtggcggga ggattgggga 780
cagctttcgg ggacggccgt gccgccccag ggtgccgagc cccagagcaa cgcgggcccc 840
cgaccccaaca tcggggacac gttatttacc ctgtttcggg cccccgagtt gctggccccc 900
aacggcgacc tgtataacgt gtttgcctgg gccttgagc tcttgccaa acgcctccgt 960
cccattgcacg tctttatcct ggattacgac caatcgcccg ccggctgccg ggacgccctg 1020
ctgcaactta cctccgggat ggtccagacc cacgtacca cccaggctc cataccgacg 1080
atctgcgacc tggcgcgcac gtttggcccg gagatggggg aggctaac 1128

```

<210> 201

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 201

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atggcttcgt accccggcca tcagcacgcg tctgcgttcg accaggctgc gcgttctcgc 60
ggccatagca accgacgtac ggcgttcgc cctcgccggc agcaagaagc cacggaagtc 120
cgcccggagc agaaaatgcc cacgctactg cgggtttata tagacggtcc ccacgggatg 180
gggaaaacca ccaccacgca actgctgggt gccctgggtt cgcgcgacga tatcgtctac 240
gtacccgagc cgatgactta ctggcgggtg ctgggggctt ccgagacaat cgcgaacatc 300
tacaccacac aacaccgcct cgaccagggt gagatatcgg ccggggacgc ggcggtggtg 360
atgacaagcg cccagataac aatgggcatg ccttatgccg tgaccgacgc cgttctggct 420
cctcatatcg ggggggaggg tgggagctca catgccccgc ccccgccct caccctcatc 480
ttcgaccgcg atcccatcgc cgccctcctg tgctaccggg ccgcgcgata ccttatgggc 540
agcatgacct cccaggccgt gttggcggtc gtggccctca tcccgccgac cttgcccggc 600
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cagcgccccg gcgagcggct tgacctggct atgctggccg cgattcgccg cgtttacggg 720
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cagctttcgg ggacggccgt gccgccccag ggtgccgagc cccagagcaa cgcgggcccc 840
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cccattgcacg tctttatcct ggattacgac caatcgcccg ccggctgccg ggacgccctg 1020
ctgcaactta cctccgggat ggtccagacc cacgtacca cccaggctc cataccgacg 1080
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```

<210> 202

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 202

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cgcccggagc agaaaatgcc cacgctactg cgggtttata tagacggtcc ccacgggatg 180
gggaaaacca ccaccacgca actgctgggt gccctgggtt cgcgcgacga tatcgtctac 240
gtacccgagc cgatgactta ctggcgggtg ctgggggctt ccgagacaat cgcgaacatc 300
tacaccacac aacaccgcct cgaccagggt gagatatcgg ccggggacgc ggcggtggtg 360
atgacaagcg cccagataac aatgggcatg ccttatgccg tgaccgacgc cgttctggct 420
cctcatatcg ggggggaggg tgggagctca catgccccgc ccccgccct caccctcatc 480
ttcgaccgcg atcccatcgc cgccctcctg tgctaccggg ccgcgcgata ccttatgggc 540
agcatgacct cccaggccgt gctggcggtc gtggccctca tcccgccgac cttgcccggc 600

```

Sequence Listing.txt

```

acaaacatcg tgttgggggc ctttccggag gacagacaca tcgaccgcct ggccaaacgc 660
cagcgccccg gcgagcggct tgacctggct atgctggccg cgattcgccg cgtttacggg 720
ctgcttgcca atacggtgcg gtatctgcag ggcggcgggt cgtggcggga ggattgggga 780
cagctttcgg ggacggccgt gccgccccag ggtgccgagc cccagagcaa cgcgggcca 840
cgaccccaca tcggggacac gttatttacc ctgtttcggg ccccgagtt gctggcccc 900
aacggcgacc tgtataacgt gtttgccctg gccttgagc tcttgccaa acgcctccgt 960
cccatgcacg tctttatcct ggattacgac caatcgccc cggctgccc ggacgccctg 1020
ctgcaactta cctccgggat ggtccagacc cacgtacca cccaaggctc cataccgacg 1080
atctgcgacc tggcgcgcac gtttggcccg gagatggggg aggctaac 1128

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<210> 203

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 203

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atggcttcgt acccggcca tcagcacgcg tctgcgttcg accaggctgc gcgttctcgc 60
ggccatagca accgacgtac ggcgttgccg cctcgccggc agcaagaagc cacggaagtc 120
cgcccggagc agaaaatgcc cacgctactg cgggtttata tagacggccc ccacgggatg 180
gggaaaacca ccaccacgca actgctgggt gccctgggtt cgcgcgacga tatcgtctac 240
gtacccgagc cgatgactta ctggcgggtg ctgggggctt ccgagacaat cgcgaacatc 300
tacaccacac aacaccgcct cgaccagggt gagatatcgg ccggggacgc ggcggtggtg 360
atgacaagcg cccagataac aatgggcatg ccttatgccg tgaccgacgc cgttctggct 420
cctcataatc ggggggaggg tgggagctca catgccccgc ccccgccct caccctcatc 480
ttcgaccgcc atcccatcgc cgccctcctg tgctaccggg ccgcgcgata ccttatgggc 540
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acaaacatcg tgttgggggc ctttccggag gacagacaca tcgaccgcct ggccaaacgc 660
cagcgccccg gcgagcggct tgacctggct atgctggccg cgattcgccg cgtttacggg 720
ctgcttgcca atacggtgcg gtatctgcag ggcggcgggt cgtggcggga ggattgggga 780
cagctttcgg ggacggccgt gccgccccag ggtgccgagc cccagagcaa cgcgggcca 840
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aacggcgacc tgtataacgt gtttgccctg gccttgagc tcttgccaa acgcctccgt 960
cccatgcacg tctttatcct ggattacgac caatcgccc cggctgccc ggacgccctg 1020
ctgcaactta cctccgggat ggtccagacc cacgtacca cccaaggctc cataccgacg 1080
atctgcgacc tggcgcgcac gtttggcccg gagatggggg aggctaac 1128

```

<210> 204

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 204

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ggccatagca accgacgtac ggcgttgccg cctcgccggc agcaagaagc cacggaagtc 120
cgcccggagc agaaaatgcc cacgctactg cgggtttata tagacggctc ccacgggatg 180
gggaaaacca ccaccacgca actgctgggt gccctgggtt cgcgcgacga tatcgtctac 240
gtacccgagc cgatgactta ctggcgggtg ctgggggctt ccgagacaat cgcgaacatc 300
tacaccacac aacaccgcct cgaccagggt gagatatcgg ccggggacgc ggcggtggtg 360
atgacaagcg cccagataac aatgggcatg ccttatgccg tgaccgacgc cgttctggct 420
cctcataatc ggggggaggg tgggagctca catgccccgc ccccgccct caccctcatc 480
ttcgaccgcc atcccatcgc cgccctcctg tgctaccggg ccgcgcgata ccttatgggc 540
agcatgacct cccaggccgt gctggcgctt gtggccctca tcccgcgac cttgcccggc 600
acaaacatcg tgttgggggc ctttccggag gacagacaca tcgaccgcct ggccaaacgc 660

```

Sequence Listing.txt

cagcgccccg	gcgagcggct	tgacctggct	atgctggccg	cgattcgccg	cgtttacggg	720
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cagctttcgg	ggacggccgt	gccgccccag	ggtgccgagc	cccagagcaa	cgcgggccca	840
cgacccca	tcggggacac	gttatttacc	ctgtttcggg	cccccgagtt	gctggccccc	900
aacggcgacc	tgtataacgt	gtttgccttg	gccttgagc	tcttgccaa	acgcctccgt	960
cccatgcacg	tctttatcct	ggattacgac	caatcgccc	ccggtgccg	ggacgccctg	1020
ctgcaactta	cctccgggat	ggtccagacc	cacgtcacca	ccccaggctc	cataccgacg	1080
atctgcgacc	tggcgcgcac	gtttgcccgg	gagatggggg	aggctaac		1128

<210> 205

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 205

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ggccatagca	accgacgtac	ggcgttgccg	cctcgccggc	agcaagaagc	cacggaagtc	120
cgcttgagc	agaaaatgcc	cacgctactg	cggttttata	tagacggtcc	tcacgggatg	180
gggaaaacca	ccaccacgca	actgctggtg	gccctgggtt	cgcgcgacga	tatcgtctac	240
gtacccgagc	cgatgactta	ctggcaggtg	ctgggggctt	ccgagacaat	cgcgaaacatc	300
tacaccacac	aacaccgcct	cgaccagggt	gagatatcgg	ccggggacgc	ggcggtggtg	360
atgacaagcg	cccagataac	aatgggcatg	ccttatgccg	tgaccgacgc	cgttctggct	420
cctcatatcg	gggggggaggc	tgggagctca	catgccccgc	ccccggccct	caccctcatc	480
ttcgaccgcc	atcccatcgc	cgccctcctg	tgctacccgg	ccgcgcgata	ccttatgggc	540
agcatgaccc	cccaggccgt	gctggcggtc	gtggccctca	tcccgccgac	cttgcccggc	600
acaaacatcg	tgttgggggc	ccttcgggag	gacagacaca	tcgaccgcct	ggccaaacgc	660
cagcgccccg	gcgagcggct	tgacctggct	atgctggccg	cgattcgccg	cgtttacggg	720
ctgcttgcca	atacgggtcg	gtatctgcag	ggcggcgggt	cgtaggcgga	ggattggggg	780
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cgacccca	tcggggacac	gttatttacc	ctgtttcggg	cccccgagtt	gctggccccc	900
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cccatgcacg	tctttatcct	ggattacgac	caatcgccc	ccggtgccg	ggacgccctg	1020
ctgcaactta	cctccgggat	ggtccagacc	cacgtcacca	ccccaggctc	cataccgacg	1080
atctgcgacc	tggcgcgcac	gtttgcccgg	gagatggggg	aggctaac		1128

<210> 206

<211> 1131

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 206

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cgcttgagc	agaaaatgcc	cacgctactg	cggttttata	tagacggtcc	tcacgggatg	180
gggaaaacca	ccaccacgca	actgctggtg	gccctgggtt	cgcgcgacga	tatcgtctac	240
gtacccgagc	cgatgactta	ctggcaggtg	ctgggggctt	ccgagacaat	cgcgaaacatc	300
tacaccacac	aacaccgcct	cgaccagggt	gagatatcgg	ccggggacgc	ggcggtggtg	360
atgacaagcg	cccagataac	aatgggcatg	ccttatgccg	tgaccgacgc	cgttctggct	420
cctcatatcg	gggggggaggc	tgggagctca	catgccccgc	ccccggccct	caccctcatc	480
ttcgaccgcc	atcccatcgc	cgccctcctg	tgctacccgg	ccgcgcgata	ccttatgggc	540
agcatgaccc	cccaggccgt	gctggcggtc	gtggccctca	tcccgccgac	cttgcccggc	600
acaaacatcg	tgttgggggc	ccttcgggag	gacagacaca	tcgaccgcct	ggccaaacgc	660
cagcgccccg	gcgagcggct	tgacctggct	atgctggccg	cgattcgccg	cgtttacggg	720

Sequence Listing.txt

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ctgcttgcca atacggtgcg gtatctgcag ggcggcgggt cgtggcgggg ggattggggg 780
cagcttttcg ggacggccgt gccgccccag ggtgccgagc cccagagcaa cgcgggcccc 840
cgaccccata tcgggggacac gttatttacc ctgttttcgg ccccgagtt gctggccccc 900
aacggcgacc tgtataacgt gtttgcctgg gccttgagc tcttgccaa acgcctccgt 960
cccatgcacg tctttatcct ggattacgac caatcgccc cggctgccg ggacgccctg 1020
ctgcaactta cctccgggat ggtccagacc cacgtcacca cccaggctcc ataccgacga 1080
tctgcgacct ggcgcgcacg tttgcccggg agatggggga ggctaactga a 1131

```

<210> 207

<211> 1131

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 207

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cgcctggagc agaaaatgcc cacgctactg cgggtttata tagacggtcc tcacgggatg 180
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gtacccgagc cgatgactta ctggcagggt ctgggggctt ccgagacaat cgcgaacatc 300
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cctcatatcg ggggggaggc tgggagctca catgccccgc ccccgccct caccctcatc 480
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```

<210> 208

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 208

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cgcctggagc agaaaatgcc cacgctactg cgggtttata taaacggtcc tcacgggatg 180
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atgacaagcg cccagataac aatgggcatg ccttatgccg tgaccgacgc cgttctggct 420
cctcatatcg ggggggaggc tgggagctca catgccccgc ccccgccct caccctcatc 480
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cagcgccccg gcgagcggtt tgacctggct atgttgccg cgattcgccg cgtttacggg 720
ctgcttgcca atacggtgcg gtatctgcag ggcggcgggt cgtggcgggg ggattggggg 780

```

Sequence Listing.txt

cagcttttcg	ggacggccgt	gccgccccag	ggtgccgagc	cccagagcaa	gcggggcccc	840
cgaccccata	tcgggggacac	gttattttacc	ctgttttcggg	cccccgagtt	gctggccccc	900
aacggcgacc	tgtataacgt	gtttgcctgg	gccttgagc	tcttgccaa	acgcctccgt	960
cccatgcacg	tctttatcct	ggattacgac	caatcgccc	ccggctgccg	ggacgccctg	1020
ctgcaactta	cctccgggat	ggtccagacc	cacgtcacca	ccccaggctc	cataccgacg	1080
atctgcgacc	tggcgcgac	gtttgcccgg	gagatggggg	aggctaac		1128

<210> 209
 <211> 1128
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 209						
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gtacccgagc	cgatgactta	ctggcagggt	ctgggggctt	ccgagacaat	cggaacatc	300
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atgacaagcg	cccagataac	aatgggcatg	ccttatgccg	tgaccgacgc	cgctctggct	420
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cagcgccccg	gcgagcggct	tgacctggct	atgctggccg	cgattcgccg	cgtttacggg	720
ctgcttgcca	atacggtgcg	gtatctgcag	ggcggcgggg	cgtggcgggg	ggattgggga	780
cagctttcgg	ggacggccgt	gccgccccag	ggtgccgagc	cccagagcaa	cgcgggcccc	840
cgaccccata	tcgggggacac	gttattttacc	ctgttttcggg	cccccgagtt	gctggccccc	900
aacggcgacc	tgtataacgt	gtttgcctgg	gccttgagc	tcttgccaa	acgcctccgt	960
cccatgcacg	tctttatcct	ggattacgac	caatcgccc	ccggctgccg	ggacgccctg	1020
ctgcaactta	cctccgggat	ggtccagacc	cacgtcacca	ccccaggctc	cataccgacg	1080
atctgcgacc	tggcgcgac	gtttgcccgg	gagatggggg	aggctaac		1128

<210> 210
 <211> 1128
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 210						
atggcttcgt	acccctgcca	tcaacacg	tctgcgttcg	accaggctgc	gcgttctcgc	60
ggccatagca	accgacgtac	ggcgttg	cctcgccggc	agcaagaagc	cacggaagtc	120
cgcttgagc	agaaaatgcc	cacgctactg	cggtttata	tagacggtcc	tcacgggatg	180
gggaaaacca	ccaccacgca	actgctgggt	gccctgggtt	cgcgcgacga	tatcgtctac	240
gtacccgagt	cgatgactta	ctggcagggt	ctgggggctt	ccgagacaat	cggaacatc	300
tacaccacac	aacaccgcct	cgaccagggt	gagatatcgg	ccggggacgc	ggcggtggtg	360
atgacaagcg	cccagataac	aatgggcatg	ccttatgccg	tgaccgacgc	cgctctggct	420
cctcatatcg	ggggggaggg	tgggagctca	catgccccgc	ccccggccct	caccctcatc	480
ttcgaccgcc	atcccatcgc	cgccctcctg	tgctacccgg	ccgcgcgata	ccttatgggc	540
agcatgaccc	cccaggccgt	gctggcgctt	gtggccctca	tcccgccgac	cttgcccggc	600
acaaacatcg	tggtgggggc	ccttcgggag	gacagacaca	tcgaccgcct	ggccaaacgc	660
cagcgccccg	gcgagcggct	tgacctggct	atgctggccg	cgattcgccg	cgtttacggg	720
ctgcttgcca	atacggtgcg	gtatctgcag	ggcggcgggg	cgtggcgggg	ggattgggga	780
cagctttcgg	ggacggccgt	gccgccccag	ggtgccgagc	cccagagcaa	cgcgggcccc	840

Sequence Listing.txt

```

cgaccccata tcggggacac gttattttacc ctgttttcggg ccccgagtt gctggcccc 900
aacggcgacc tgtataacgt gtttgccctg gccttgagcg tcttgccaa acgcctccgt 960
cccatgcacg tctttatcct ggattacgac caatcgcccg ccggtgccg ggacgccctg 1020
ctgcaactta cctccgggat ggtccagacc cacgtcacca cccaggtc cataccgacg 1080
atctgcgacc tggcgcgcac gtttgcccgg gagatggggg aggctaac 1128

```

<210> 211

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 211

```

atggcttcgt acccctgcc tcaacacgcg tctgcgttcg accaggctgc gcgttctcgc 60
ggccatagca accgacgtac ggcgttgccg cctcgccggc agcaagaagc cacggaagtc 120
cgcctggagc agaaaatgcc cacgctactg cgggtttata tagacggtcc tcacgggatg 180
gggaaaacca ccaccacgca actgctgggt gccctggggt cgcgcgacga tatcgtctac 240
gtacccgagc cgatgactta ctggcaggtg ctgggggctt ccgagacaat cgcgaacatc 300
tacaccacac aacaccgcct cgaccagggt gagatatcgg ccggggacgc ggcggtggtg 360
atgacaagcg cccagataac aatgggcatg ccttatgccg tgaccgacgc cgttctggct 420
cctcatatcg gggggaggc tgggagctca catgccccgc ccccgccct caccctcatc 480
ttcgaccgcc atcccatcgc cgccctcctg tgctaccggg ccgcgcgata ccttatgggc 540
agcatgacct cccaggccgt gctggcgctt gtggccctca tcccgccgac cttgccctgc 600
acaaacatcg tgttgggggc ctttccggag gacagacaca tcgaccgcct ggccaaacgc 660
cagcgccccg gcgagcggct tgacctggct atgctggccg cgattcgccg cgtttacggg 720
ctgcttgcca atacggtgcg gtatctgcag ggcggcgggt cgtggcgggg ggattgggga 780
cagctttcgg ggacggccgt gccgccccag ggtgccgagc cccagagcaa cgcgggcccc 840
cgaccccata tcggggacac gttattttacc ctgttttcggg ccccgagtt gctggcccc 900
aacggcgacc tgtataacgt gtttgccctg gccttgagcg tcttgccaa acgcctccgt 960
cccatgcacg tctttatcct ggattacgac caatcgcccg ccggtgccg ggacgccctg 1020
ctgcaactta cctccgggat ggtccagacc cacgtcacca cccaggtc cataccgacg 1080
atctgcgacc tggcgcgcac gtttgcccgg gagatggggg aggctaac 1128

```

<210> 212

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 212

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ggccatagca accgacgtac ggcgttgccg cctcgccggc agcaagaagc cacggaagtc 120
cgcctggagc agaaaatgcc cacgctactg cgggtttata tagacggtcc tcacgggatg 180
gggaaaacca ccaccacgca actgctgggt gccctggggt cgcgcgacga tatcgtctac 240
gtacccgagc cgatgactta ctggcaggtg ctgggggctt ccgagacaat cgcgaacatc 300
tacaccacac aacaccgcct cgaccagggt gagatatcgg ccggggacgc ggcggtggtg 360
atgacaagcg cccagataac aatgggcatg ccttatgccg tgaccgacgc cgttctggct 420
cctcatatcg gggggaggc tgggagctca catgccccgc ccccgccct caccctcatc 480
ttcgaccgcc atcccatcgc cgccctcctg tgctaccggg ccgcgcgata ccttatgggc 540
agcatgacct cccaggccgt gctggcgctt gtggccctca tcccgccgac cttgccctgc 600
acaaacatcg tgttgggggc ctttccggag gacagacaca tcgaccgcct ggccaaacgc 660
cagcgccccg gcgagcggct tgacctggct atgctggccg cgattcgccg cgtttacggg 720
ctgcttgcca atacggtgcg gtatctgcag ggcggcgggt cgtggcgggg ggattgggga 780
cagctttcgg ggacggccgt gccgccccag ggtgccgagc cccagagcaa cgcgggcccc 840
cgaccccata tcggggacac gttattttacc ctgttttcggg ccccgagtt gctggcccc 900

```

Sequence Listing.txt

aacggcgacc	tgtataacgt	gtttgcctgg	gccttggacg	tcttggccaa	acgcctccgt	960
cccatgcacg	tctttatcct	ggattacgac	caatcgcccg	ccggctgccg	ggacgccctg	1020
ctgcaactta	cctccgggat	ggtccagacc	cacgtcacca	ccccaggctc	cataccgacg	1080
atctgcgacc	tggcgcgcac	gtttgcccgg	gagatggggg	aggctaac		1128

<210> 213
 <211> 1128
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 213					
atggcttcgt	acccctgcca	tcaacacgcg	tctgcgttcg	accaggctgc	gcgttctcgc 60
ggccatagca	accgacgtac	ggcgttgcg	cctcgccggc	agcaagaagc	cacggaagtc 120
cgcttgagc	agaaaatgcc	cacgctactg	cgggtttata	tagacggtcc	tcacgggatg 180
gggaaaacca	ccaccacgca	actgctgggtg	gccctggggt	cgcgcgacga	tatcgtctac 240
gtacccgagc	cgatgactta	ctggcaggtg	ctgggggctt	ccgagacaat	cgcaaacatc 300
tacaccacac	aacaccgcct	cgaccagggt	gagatatcgg	ccggggacgc	ggcggtggtg 360
atgacaagcg	cccagataac	aatgggcatg	ccttatgccc	tgaccgacgc	cgttctggct 420
cctcataatcg	ggggggaggc	tgggagctca	catgccccgc	ccccggccct	cacctcatc 480
ttcgaccgcc	atcccatcgc	cgccctcctg	tgctaccggg	ccgcgcgata	ccttatgggc 540
agcatgacct	cccaggccgt	gctggcgctt	gtggccctca	tcccgccgac	cttgcccggc 600
acaaacatcg	tgttgggggc	ccttcgggag	gacagacaca	tcgaccgcct	ggccaaacgc 660
cagcgccccg	gcgagcggct	tgacctggct	atgctggccg	cgattcgccg	cgtttacggg 720
ctgcttgcca	atatggtgcg	gtatctgcag	ggcggcgggt	cgtagcgagg	ggattgggga 780
cagctttcgg	ggacggccgt	gccgccccag	ggtgcccagc	cccagagcaa	cgcgggccca 840
cgaccata	tcggggacac	gttatttacc	ctgtttcggg	cccccgagtt	gctggcccc 900
aacggcgacc	tgtataacgt	gtttgcctgg	gccttggacg	tcttggccaa	acgcctccgt 960
cccatgcacg	tctttatcct	ggattacgac	caatcgcccg	ccggctgccg	ggacgccctg 1020
ctgcaactta	cctccgggat	ggtccagacc	cacgtcacca	ccccaggctc	cataccgacg 1080
atctgcgacc	tggcgcgcac	gtttgcccgg	gagatggggg	aggctaac	1128

<210> 214
 <211> 1128
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 214					
atggcttcgt	acccctgcca	tcaacacgcg	tctgcgttcg	accaggctgc	gcgttctcgc 60
ggccatagca	accgacgtac	ggcgttgcg	cctcgccggc	agcaagaagc	cacggaagtc 120
cgcttgagc	agaaaatgcc	cacgctactg	cgggtttata	tagacggtcc	tcacgggatg 180
gggaaaacca	ccaccacgca	actgctgggtg	gccctggggt	cgcgcgacga	tatcgtctac 240
gtacccgagc	cgatgactta	ctggcaggtg	ctgggggctt	ccgagacaat	cgcaaacatc 300
tacaccacac	aacaccgcct	cgaccagggt	gagatatcgg	ccggggacgc	ggcggtggtg 360
atgacaagcg	cccagataac	aatgggcatg	ccttatgccc	tgaccgacgc	cgttctggct 420
cctcataatcg	ggggggaggc	tgggagctca	catgccccgc	ccccggccct	cacctcatc 480
ttcgaccgcc	atcccatcgc	cgccctcctg	tgctaccggg	ccgcgcgata	ccttatgggc 540
agcatgacct	cccaggccgt	gctggcgctt	gtggccctca	tcccgccgac	cttgcccggc 600
acaaacatcg	tgttgggggc	ccttcgggag	gacagacaca	tcgaccgcct	ggccaaacgc 660
cagcgccccg	gcgagcggct	tgacctggct	atgctggccg	cgattcgccg	cgtttacggg 720
ctgcttgcca	atatggtgcg	gtatctgcag	ggcggcgggt	cgtagcgagg	ggattgggga 780
cagctttcgg	ggacggccgt	gccgccccag	ggtgcccagc	cccagagcaa	cgcgggccca 840
cgacccata	tcggggacac	gttatttacc	ctgtttcggg	cccccgagtt	gctggcccc 900
aacggcgacc	tgtataacgt	gtttgcctgg	gccttggacg	tcttggccaa	acgcctccgt 960

Sequence Listing.txt

```

cccatgcacg tctttatcct ggattacgac caatcgcccg ccggctgccg ggacgccctg 1020
ctgcaactta cctccgggat ggtccagacc cacgtcacca cccaggctc cataccgacg 1080
atctgcgacc tggcgcgcac gtttgcgccg gagatggggg aggctaac 1128

```

<210> 215

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 215

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atggcttcgt acccctgcca tcaacacgcg tctgcgttcg accaggctgc gcgttctcgc 60
ggccatagca accgacgtac ggcgttgccg cctcgccggc agcaagaagc cacggaagtc 120
cgccctggagc agaaaatgcc cacgctactg cgggtttata tagacggtcc tcacgggatg 180
gggaaaacca ccaccacgca actgctgggt gccctggggt cgcgcgacga tatcgtctac 240
gtaccccgagc cgatgactta ctggcggggt ctgggggctt ccgagacaat cgcgaaacatc 300
tacaccacac aacaccgcct cgaccagggt gagatatcgg ccggggacgc ggcggtggtgta 360
atgacaagcg cccagataac aatgggcatg ccttatgccg tgaccgacgc cgttctggct 420
cctcatatcg ggggggaggc tgggagctca catgccccgc ccccgccctt caccctcatc 480
ttcgaccgcc atcccatcgc cgccctcctg tgctaccggc ccgcgcgata ccttatgggc 540
agcatgacct cccaggccgt gctggcggtc gtggccctca tcccgcgcac cttgcccggc 600
acaaacatcg tgttgggggc ccttccggag gacagacaca tcgaccgcct ggccaaacgc 660
cagcgccccg gcgagcggct tgacctggct atgctggccg cgattcgccg cgtttacggg 720
ctgcttgcca atacggtgcg gtatctgcag ggcggcgggt cgtggcggga ggattgggga 780
cagctttcgg ggacggccgt gccgccccag ggtgccgagc cccagagcaa cgcgggccca 840
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aacggcgacc tgtataacgt gtttgcctgg gccttgagc tcttgccaa acgcctccgt 960
cccatgcacg tctttatcct ggattacgac caatcgcccg ccggctaccg ggacgccctg 1020
ctgcaactta cctccgggat ggtccagacc cacgtcacca cccaggctc cataccgacg 1080
atctgcgacc tggcgcgcac gtttgcgccg gagatggggg aggctaac 1128

```

<210> 216

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 216

```

atggcttcgt acccctgcca tcaacacgcg tctgcgttcg accaggctgc gcgttctcgc 60
ggccatagca accgacgtac ggcgttgccg cctcgccggc agcaagaagc cacggaagtc 120
cgcccgagc agaaaatgcc cacgctactg cgggtttata tagacggtcc ccacgggatg 180
gggaaaacca ccaccacgca actgctgggt gccctggggt cgcgcgacga tatcgtctac 240
gtaccccgagc cgatgactta ctggcggggt ctgggggctt ccgagacaat cgcgaaacatc 300
tacaccacac aacaccgcct cgaccagggt gagatatcgg ccggggacgc ggcggtggtgta 360
atgacaagcg cccagataac aatgggcatg ccttatgccg tgaccgacgc cgttctggct 420
cctcatatcg ggggggaggc tgggagctca catgccccgc ccccgccctt caccctcatc 480
ttcgaccgcc atcccatcgc cgccctcctg tgctaccggc ccgcgcgata ccttatgggc 540
agcatgacct cccaggccgt gctggcggtc gtggccctca tcccgcgcac cttgcccggc 600
acaaacatcg tgttgggggc ccttccggag gacagacaca tcgaccgcct ggccaaacgc 660
cagcgccccg gcgagcggct tgacctggct atgctggccg cgattcgccg cgtttacggg 720
ctgcttgcca atacggtgcg gtatctgcag ggcggcgggt cgtggcggga ggattgggga 780
cagctttcgg ggacggccgt gccgccccag ggtgccgagc cccagagcaa cgcgggccca 840
cgaccccata tcggggacac gttatttacc ctgtttcggg cccccgagtt gctggccccc 900
aacggcgacc tgtataacgt gtttgcctgg gccttgagc tcttgccaa acgcctccgt 960
cccatgcacg tctttatcct ggattacgac caatcgcccg ccggctgccg ggacgccctg 1020

```


Sequence Listing.txt

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ctgcaactta cctccgggat ggtccagacc cacgtcacca cccaggctc cataccgacg 1080
atctgcgacc tggcgcgcac gtttgcccgg gagatggggg aggctaac 1128

```

<210> 217

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 217

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atggcttcgt acccctgcca tcaacacgcg tctgcgttcg accaggctgc gcgttctcgc 60
ggccatagca accgacgtac ggcgttgccg cctcgccggc agcaagaagc cacggaagtc 120
cgccctggagc agaaaatgcc cacgctactg cgggtttata tagacggtcc tcacgggatg 180
gggaaaacca ccaccacgca actgctgggt gccctggggt cgcgcgacga tatcgtctac 240
gtacccgagc cgatgactta ctggcagggt ctgggggctt ccgagacaat cgcgaacatc 300
tacaccacac aacaccgcct cgaccagggt gagatatcgg ccggggacgc ggcggtggta 360
atgacaagcg cccagataac aatgggcatg ccttatgccg tgaccgacgc cgttctggct 420
cctcatatcg ggggggaggc tgggagctca catgccccgc ccccgccctt caccctcatc 480
ttcgaccgcc atcccatcgc cgccctcctg tgctaccggc ccgcgcgata ccttatgggc 540
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acaaacatcg tgttgggggc ccttccggag gacagacaca tcgaccgctt ggccaaacgc 660
cagcgccccg gcgagcggct tgacctggct atgctggccg cgattcgccg cgtttacggg 720
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aacggcgacc tgtataacgt gtttgcctgg gccttgagc tcttgccaa acgcctccgt 960
cccatgcacg tctttatcct ggattacgac caatcgcccg ccggctgccg ggacgccctg 1020
ctgcaactta cctccgggat ggtccagacc cacgtcacca ccccggtc cataccgacg 1080
atctgcgacc tggcgcgcac gtttgcccgg ggagtggggg aggctaac 1128

```

<210> 218

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 218

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ggccatagca accgacgtac ggcgttgccg cctcgccggc agcaagaagc cacggaagtc 120
cgcccgagc agaaaatgcc cacgctactg cgggtttata tagacggtcc ccacgggatg 180
gggaaaacca ccaccacgca actgctgggt gccctggggt cgcgcgacga tatcgtctac 240
gtacccgagc cgatgactta ctggcgggtg ctgggggctt ccgagacaat cgcgaacatc 300
tacaccacac aacaccgcct cgaccagggt gagatatcgg ccggggacgc ggcggtggta 360
atgacaagcg cccagataac aatgggcatg ccttatgccg tgaccgacgc cgttctggct 420
cctcatatcg ggggggaggc tgggagctca catgccccgc ccccgccctt caccctcatc 480
ttcgaccgcc atcccatcgc cgccctcctg tgctaccggc ccgcgcgga ccttatgggc 540
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cagcgccccg gtgagcggct tgacctggct atgctggccg cgattcgccg cgtttacggg 720
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cagctttcgg ggacggccct gacgccccag ggtgccgagc cccagagcaa cgcgggcccc 840
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cccatgcacg tctttatcct ggattacgac caatcgcccg ccggctgccg ggacgccctg 1020
ctgcaactta cctccgggat ggtccagacc catgtcacca cccaggctc cataccgacg 1080

```

Sequence Listing.txt

atctgcgacc tggcgcgcac gtttgcgccg gagatggggg aggctcac

1128

<210> 219

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 219

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ggccatagca	accgacgtac	ggcgttgccg	cctcgccggc	agcaagaagc	cacggaagtc	120
cgcctggagc	agaaaatgcc	cacgctactg	tgggtttata	tagacggtcc	tcacgggatg	180
gggaaaacca	ccaccacgca	actgctgggtg	gccctggggt	cgcgcgacga	tatcgtctac	240
gtacccgagc	cgatgactta	ctggcagggtg	ctgggggctt	ccgagacaat	cgcgaacatc	300
tacaccacac	aacaccgcct	cgaccagggtg	gagatatcgg	ccggggacgc	ggcggtggtg	360
atgacaagcg	cccagataac	aatgggcatg	ccttatgccg	tgaccgacgc	cgttctggct	420
cctcataatcg	ggggggaggc	tgggagctca	catgccccgc	ccccggccct	caccctcatc	480
ttcgaccgcc	atcccatcgc	cgccctcctg	tgctacccgg	ccgcgcgata	ccttatgggc	540
agcatgaccc	cccaggccgt	gctggcgctt	gtggccctca	tcccgccgac	cttgcccggc	600
acaaacatcg	tgttgggggc	ccttccggag	gacagacaca	tcgaccgcct	ggccaaacgc	660
cagcgccccg	gcgagcggct	tgacctggct	atgctggccg	cgattcgccg	cgtttacggg	720
ctgcttgcca	atacggtgcg	gtatctgcag	ggcggcggtg	cgtggcgggg	ggattgggga	780
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cgaccccata	tcggggacac	gttatttacc	ctgtttcggg	cccccgagtt	gctggccccc	900
aacggcgacc	tgtataacgt	gtttgcctgg	gccttgagcg	tcttgcccaa	acgcctccgt	960
cccatgcacg	tctttatcct	ggattacgac	caatcgcccc	ccggctgccg	ggacgccctg	1020
ctgcaactta	cctccgggat	ggtccagacc	cacgtcacca	ccccaggctc	cataccgacg	1080
atctgcgacc	tggcgcgcac	gtttgcgccg	gagatggggg	aggctaac		1128

<210> 220

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 220

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ggccatagca	accgacgtac	ggcgttgccg	cctcgccggc	agcaagaagc	cacggaagtc	120
cgcctggagc	agaaaatgcc	cacgctactg	cgggtttata	tagacggtcc	tcacgggatg	180
gggaaaacca	ccaccacgca	actgctgggtg	gccctggggt	cgcgcgacga	tatcgtctac	240
gtacccgagc	cgatgactta	ctggcgggtg	ctgggggctt	ccgagacaat	cgcgaacatc	300
tacaccacac	aacaccgcct	cgaccagggtg	gagatatcgg	ccggggacgc	ggcggtggtg	360
atgacaagcg	cccagataac	aatgggcatg	ccttatgccg	tgaccgacgc	cgttctggct	420
cctcataatcg	ggggggaggc	tgggagctca	catgccccgc	ccccggccct	caccctcatc	480
ttcgaccgcc	atcccatcgc	cgccctcctg	tgctacccgg	ccgcgcggta	ccttatgggc	540
agcatgaccc	cccaggccgt	gctggcgctt	gtggccctca	tcccgccgac	cttgcccggc	600
acaaacatcg	tgttgggggc	ccttccggag	gacagacaca	tcgaccgcct	ggccaaacgc	660
cagcgccccg	gtgagcggct	tgacctggct	atgctggccg	cgattcgccg	cgtttacggg	720
ctacttgcca	atacggtgcg	gtatctgcag	tgccggcggt	cgtggcgggg	ggattgggga	780
cagctttcgg	ggacggccct	gacgccccag	ggtgccgagc	cccagagcaa	cgcgggcccc	840
cgaccccata	tcggggaaac	gttatttacc	ctgtttcggg	cccccgagtt	gctggccccc	900
aacggcgacc	tgtacaacgt	gtttgcctgg	gccttgagcg	tcttgcccaa	acgcctccgt	960
cccatgcacg	tctttatcct	ggattacgac	caatcgcccc	ccggctgccg	ggacgccctg	1020
ctgcaactta	cctccgggat	ggtccagacc	catgtcacca	ccccaggctc	cataccgacg	1080
atctgcgacc	tggcgcgcac	gtttgcgccg	gagatggggg	aggctcac		1128

Sequence Listing.txt

<210> 221
 <211> 1128
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 221
 atggcttcgt acccctgcc tcaacacgc tctgcgttcg accaggctgc gcgttctcgc 60
 ggccatagca accgacgtac ggcgttgccg cctcgccggc aacaagaagc cacggaagtc 120
 cgcctggagc agaaaatgcc cacgctactg cgggtttata tagacggtcc tcacgggatg 180
 gggaaaacca ccaccacgca actgctggtg gccctggggt cgcgcgacga tatcgtctac 240
 gtaccccgagc cgatgactta ctggcagggt ctgggggctt ccgagacaat cgcgaacatc 300
 tacaccacac aacaccgcct cgaccagggt gagatatcgg ccggggacgc ggcggtggtg 360
 atgacaagcg cccagataac aatgggcatg ccttatgccg tgaccgacgc cgttctggct 420
 cctcatatcg ggggggaggc tgggagctca catgccccgc ccccgccctt caccctcatc 480
 ttcgaccgcc atcccatcgc cgccctcctg tgttaccggg ccgcgcgata ccttatgggc 540
 agcatgaccc cccaggccgt gctggcgttc gtggccctca tcccgccgac cttgcccggc 600
 acaaacatcg tgttggggggc cttccggag gacagacaca tcgaccgcct ggccaaacgc 660
 cagcgccccg gcgagcggct tgacctggct atgctggccg cgattcgccg cgtttacgag 720
 ctgcttgcca atacggtgcg gtatctgcag ggcggcgggt cgtggcgagg ggattgggga 780
 cagctttcgg ggacggccgt gccgccccag ggtgccgagc cccagagcaa cgcgggcccc 840
 cgaccccata tcggggacac gttatttacc ctgtttcggg cccccgagtt gctggcccc 900
 aacggcgacc tgtataacgt gtttgccctg gccttgacg tcttgccaa acgcctccgt 960
 cccatgcacg tctttatcct ggattacgac caatcgcccg ccggtgccc ggacgccctg 1020
 ctgcaactta cctccgggat ggtccagacc cacgtcacca ccccggtc ccatccgacg 1080
 atctgcgacc tggcgcgcac gtttgcccgg gagatggggg aggctaac 1128

<210> 222
 <211> 1128
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 222
 atggcttcgt acccctgcc tcaacacgc tctgcgttcg accaggctgc gcgttctcgc 60
 ggccatagca accgacgtac ggcgttgccg cctcgccggc aacaagaagc cacggaagtc 120
 cgcctggagc agaaaatgcc cacgctactg cgggtttata tagacggtcc tcacgggatg 180
 gggaaaacca ccaccacgca actgctggtg gccctggggt cgcgcgacga tatcgtctac 240
 gtaccccgagc cgatgactta ctggcagggt ctgggggctt ccgagacaat cgcgaacatc 300
 tacaccacac aacaccgcct cgaccagggt gagatatcgg ccggggacgc ggcggtggtg 360
 atgacaagcg cccagataac aatgggcatg ccttatgccg tgaccgacgc cgttctggct 420
 cctcatatcg ggggggaggc tgggagctca catgccccgc ccccgccctt caccctcatc 480
 ttcgaccgcc atcccatcgc cgccctcctg tgttaccggg ccgtgcgata ccttatgggc 540
 agcatgaccc cccaggccgt gctggcgttc gtggccctca tcccgccgac cttgcccggc 600
 acaaacatcg tgttggggggc cttccggag gacagacaca tcgaccgcct ggccaaacgc 660
 cagcgccccg gcgagcggct tgacctggct atgctggccg cgattcgccg cgtttacgag 720
 ctgcttgcca atacggtgcg gtatctgcag ggcggcgggt cgtggcgagg ggattgggga 780
 cagctttcgg ggacggccgt gccgccccag ggtgccgagc cccagagcaa cgcgggcccc 840
 cgaccccata tcggggacac gttatttacc ctgtttcggg cccccgagtt gctggcccc 900
 aacggcgacc tgtataacgt gtttgccctg gccttgacg tcttgccaa acgcctccgt 960
 cccatgcacg tctttatcct ggattacgac caatcgcccg ccggtgccc ggacgccctg 1020
 ctgcaactta cctccgggat ggtccagacc cacgtcacca ccccggtc ccatccgacg 1080
 atctgcgacc cggcgcgcac gtttgcccgg gagatggggg aggctaac 1128

Sequence Listing.txt

<210> 223
<211> 1128
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 223
atggcttcgt acccctgcca tcaacacgcg tctgcgttcg accaggctgc gcgtttctcgc 60
ggccatagca accgacgtac ggcgttgcg cctcgccggc aacaagaagc cacggaagtc 120
cgcttgagc agaaaatgcc cacgctactg cgggtttata tagacggtcc tcacgggatg 180
gggaaaacca ccaccacgca actgctggtg gccctgggtt cgcgcgacga tatcgtctac 240
gtacccgagc cgataactta ctggcaggtg ctgggggctt ccgagacaat cgcgaacatc 300
tacaccacac aacaccgcct cgaccaggtg gagatatcgg ccggggacgc ggcggtggtg 360
atgacaagcg cccagataac aatgggcatg ccttatgccg tgaccgacgc cgttctggct 420
cctcatatcg ggggggagcg tggagctca catgccccgc ccccgccct caccctcatc 480
ttcgaccggc atcccatcgc cgccctcctg tgttaccggc ccgcgcgata ccttatgggc 540
agcatgaccc cccaggccgt gctggcgctt gtggccctca tcccgccgac cttgcccggc 600
acaaacatcg tgttgggggc ccttcggag gacagacaca tcgaccgcct ggccaaacgc 660
cagcgccccg gcgagcggct tgacctggct atgctggccg cgattcgccg cgtttacgag 720
ctgcttgcca atacggtgcg gtatctgcag ggcggcgggt cgtggcggga ggattgggga 780
cagctttcgg ggacggccgt gccgccccag ggtgccgagc cccagagcaa cgcgggccca 840
cgaccccata tcggggacac gttatttacc ctgtttcggg cccccgagtt gctggcccc 900
aacggcgacc tgtataacgt gtttgcttg gccttgagc tcttgccaa acgcctccgt 960
cccatgcacg tctttatcct ggattacgac caatcgcccg ccggtgccg ggacgccctg 1020
ctgcaactta cctccgggat ggtccagacc cacgtcacca ccccggtc cataccgacg 1080
atctgcgacc tggcgcgcac gtttgcccgg gagatggggg aggctaac 1128

<210> 224
<211> 1128
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 224
atggcttcgt accccggcca tcaacacgcg tctgcgttcg accaggctgc gcgtttctcgc 60
ggccatagca accgacgtac ggcgttgcg cctcgccggc agcaagaagc cacggaagtc 120
cgcttgagc agaaaatgcc cacgctactg cgggtttata tagacggtcc tcacgggatg 180
gggaaaacca ccaccacgca actgctggtg gccctgggtt cgcgcgacga tatcgtctac 240
gtacccgagc cgatgactta ctggcgggtg ctgggggctt ccgagacaat cgcgaacatc 300
tacaccacac aacaccgcct cgaccaggtg gagatatcgg ccggggacgc ggcggtggtg 360
atgacaagcg cccagataac aatgggcatg ccttatgccg tgaccgacgc cgttctggct 420
cctcatatcg ggggggagcg tggagctca catgccccgc ccccgccct caccctcatc 480
ttcgaccggc atcccatcgc cgccctcctg tgttaccggc ccgcgcgata ccttatgggc 540
agcatgaccc cccaggccgt gctggcgctt gtggtcctca tcccgccgac cttgcccggc 600
acaaacatcg tgttgggggc ccttcggag gacagacaca tcgaccgcct ggccaaacgc 660
cagcgccccg gtgagcggct tgacctggct atgctggccg cgattcgccg cgtttacggg 720
ctacttgcca atacggtgcg gtatctgcag tgcggcgggt cgtggcggga ggattgggga 780
cagctttcgg ggacggcctt gacgccccag ggtgccgagc cccagagcaa cgcgggccca 840
cgaccccata tcggggaaac gttatttacc ctgtttcggg cccccgagtt gctggcccc 900
aacggcgacc tgtacaacgt gtttgcttg gccttgagc tcttgccaa acgcctccgt 960
cccatgcacg tctttatcct ggattacgac caatcgcccg ccggtgccg ggacgccctg 1020
ctgcaactta cctccgggat ggtccagacc catgtcacca cccaggtc cataccgacg 1080
atctgcgacc tggcgcgcac gtttgcccgg gagatggggg aggctaac 1128

Sequence Listing.txt

<210> 225
<211> 1128
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Artificially synthesized sequence

```
<400> 225
atggcttcgt accccggcca tcaacacgcg tctgcgttcg accaggctgc gcgttctcgc 60
ggccatagca accgacgtac ggcgttgccg cctcgccggc agcaagaagc cacggaagtc 120
cgcttgagc agaaaatgcc cacgctactg cgggtttata tagacggtcc tcacgggatg 180
gggaaaacca ccaccacgca actgctgggt gccctgggtt cgcgcgacga tatcgtctac 240
gtacccaagc cgatgactta ctggcgggtg ctgggggctt ccgagacaat cgcgaacatc 300
tacaccacac aacaccgcct cgaccagggt gagatatcgg ccggggacgc ggcggtggta 360
atgacaagcg cccagataac aatgggcatg ccttatgccc tgaccgacgc cgttctggct 420
cctcatatcg ggggggaggc tgggagctca catgccccgc ccccgccctt caccctcatc 480
ttcgaccgcc atcccatcgc cgccctcctg tgctaccggg ccgcgcgata ccttatgggc 540
agcatgaccc cccaggccgt gctggcgctt gtggtcctca tcccgccgac cttgcccggc 600
acaaacatcg tgttgggggc cttccggag gacagacaca tcgaccgcct ggccaaacgc 660
cagcgccccg gtgagcggct tgacctggct atgctggccg cgattcgccg cgtttacggg 720
ctacttgcca atacggtgcg gtatctgcag tgcggcgggt cgtggcggga ggattgggga 780
cagctttcgg ggacggcctt gacgccccag ggtgccgagc cccagagcaa cgcgggcccc 840
cgaccccata tcggggaaac gttatttacc ctgtttcggg cccccgagtt gctggcccc 900
aacggcgacc tgtacaacgt gtttgccctg gccttgagc tcttgccaa acgcctccgt 960
cccatgcacg tctttatcct ggattacgac caatcgcccg ccggtgccg ggacgccctg 1020
ctgcaactta cctccgggat ggtccagacc catgtcacca cccaggctc cataccgacg 1080
atctgcgacc tggcgcgcac gtttgcccgg gagatggggg aggctaac 1128
```

<210> 226
<211> 1128
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Artificially synthesized sequence

```
<400> 226
atggcttcgt accccggcca tcaacacgcg tctgcgttcg accaggctgc gcgttctcgc 60
ggccatagca accgacgtac ggcgttgccg cctcgccggc agcaagaagc cacggaagtc 120
cgcttgagc agaaaatgcc cacgctactg cgggtttata tagacggtcc tcacgggatg 180
gggaaaacca ccaccacgca actgctgggt gccctgggtt cgcgcgacga tatcgtctac 240
gtacccaagc cgatgactta ctggcgggtg ctgggggctt ccgagacaat cgcgaacatc 300
tacaccacac aacaccgcct cgaccagggt gagatatcgg ccggggacgc ggcggtggta 360
atgacaagcg cccagataac aatgggcatg ccttatgccc tgaccgacgc cgttctggct 420
cctcatatcg ggggggaggc tgggagctca catgccccgc ccccgccctt caccctcatc 480
ttcgaccgcc atcccatcgc cgccctcctg tgctaccggg ccgcgcgata ccttatgggc 540
agcatgaccc cccaggccgt gctggcgctt gtggtcctca tcccgccgac cttgcccggc 600
acaaacatcg tgttgggggc cttccggag gacagacaca tcgaccgcct ggccaaacgc 660
cagcgccccg gtgagcggct tgacctggct atgctggccg cgattcgccg cgtttacggg 720
ctacttgcca atacggtgcg gtatctgcag tgcggcgggt cgtggcggga ggattgggga 780
cagctttcgg ggacggcctt gacgccccag ggtgccgagc cccagagcaa cgcgggcccc 840
cgaccccata tcggggaaac gttatttacc ctgtttcggg cccccgagtt gctggcccc 900
aacggcgacc tgtacaacgt gtttgccctg gccttgagc tcttgccaa acgcctccgt 960
cccatgcacg tctttatcct ggattacgac caatcgcccg ccggtgccg ggacgccctg 1020
ctgcaactta cctccgggat ggtccagacc catgtcacca cccaggctc cataccgacg 1080
atctgcgacc tggcgcgcac gtttgcccgg gagatggggg aggctaac 1128
```

<210> 227

Sequence Listing.txt

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 227

```

atggcttcgt acccctgcca tcaacacgcg tctgcgttcg accaggctgt gcgttctcgc 60
ggccatagca accgacgtac ggcgttgcg cctcgccggc aacaagaagc cacggaagtc 120
cgcccggagc agaaaatgcc cacgctactg cgggtttata tagacggtcc tcacgggatg 180
gggaaaacca ccaccacgca actgctgggt gccctgggtt cgcgcgacga tatcgtctac 240
gtacccgagc cgatgactta ctggcgggtg ctgggggctt ccgagacaat cgcgaacatc 300
tacaccacac aaccccgctt cgaccagggt gagatatcgg ccggggacgc ggcggtggtg 360
atgacaagcg cccagataac aatgggcatg ccttatgccg tgaccgacgc cgttctggct 420
cctcatatcg ggggggaggg tgggagctca catgccccgc ccccgccctt caccctcatc 480
ttcgaccgcc atcccatcgc cgccctcctg tgttaccggg ccgcgcgata ccttatgggc 540
agcatgacct cccaggccgt gctggcggtt gtggccctca tcccgccgac cttgcccggc 600
acaaaacatc tgcttggggc ccttcgggag gacagacaca tcgaccgcct ggccaaacgc 660
cagcgccccg gcgagcggct tgacctggct atgctggctg cgattcgccg cgtttacgag 720
ctacttgcca atacggtgcg gtatctgcag ggcggcgggt cgtggcgga ggactgggga 780
cagctttcgg ggacggcctt gacgccccag ggtgccgagc cccagagcaa cgcgggcccc 840
cgaccccata tcggggaaac gttatttacc ctgtttcggg cccccgagtt gctggccccc 900
aacggcgacc tgtacaacgt gtttgccctg gccttgagc tcttgccaa acgcctccgt 960
cccatgcacg tctttatcct ggattacgac caatcgcccc ccggtgccc ggacgccctg 1020
ctgcaactta cctccgggat ggtccagacc catgtcacca cccaggctc cataccgacg 1080
atctgcgacc tggcgcgcac gtttgcccg gagatggggg cggtac 1128

```

<210> 228

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 228

```

atggcttcgt acccctgcca tcaacacgcg tctgcgttcg accaggctgc gcgttctcgc 60
ggccatagca accgacgtac ggcgttgcg cctcgccggc aacaagaagc cacggaagtc 120
cgcttgagc agaaaatgcc cacgctactg cgggtttata tagacggtcc tcacgggatg 180
gggaaaacca ccaccacgca actgctgggt gccctgggtt cgcgcgacga tatcgtctac 240
gtacccgagc cgatgactta ctggcgggtg ctgggggctt ccgagacaat cgcgaacatc 300
tacaccacac aacaccgctt cgaccagggt gagatatcgg ccggggacgc ggcggtggtg 360
atgacaagcg cccagataac aatgggcatg ccttatgccg tgaccgacgc cgttctggct 420
cctcatatcg ggggggaggg tgggagctca catgccccgc ccccgccctt caccctcatc 480
ttcgaccgcc atcccatcgc cgccctcctg tgttaccggg ccgcgcgata ccttatgggc 540
agcatgacct cccaggccgt gctggcggtt gtggccctca tcccgccgac cttgcccggc 600
acaaaacatc tgcttggggc ccttcgggag gacagacaca tcgaccgcct ggccaaacgc 660
cagcgccccg gcgagcggct tgacctggct atgctggctg cgattcgccg cgtttacggg 720
ctacttgcca atacggtgcg gtatctgcag tgcggcggtt cgtggcgga ggactgggga 780
cagctttcgg ggacggcctt gacgccccag ggtgccgagc cccagagcaa cgcgggcccc 840
cgaccccata tcggggaaac gttatttacc ctgtttcggg cccccgagtt gctggccccc 900
aacggcgacc tgtacaacgt gtttgccctg gccttgagc tcttgccaa acgcctccgt 960
cccatgcacg tctttatcct ggattacgac caatcgcccc ccggtgccc ggacgccctg 1020
ctgcaactta cctccgggat ggtccagacc catgtcacca cccaggctc cataccgacg 1080
atctgcgacc tggcgcgcac gtttgcccg gagatggggg aggtcac 1128

```

<210> 229

<211> 1128

Sequence Listing.txt

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 229

```
atggcttcgt accccggcca ttagcacgcg tctgcgttcg accaggctgc gcgttctcgc 60
ggccatagca accgacgtac ggcgttgccg cctcgccggc agcaagaagc cacggaagtc 120
cgcccggagc agaaaatgcc cacgctactg cgggtttata tagacggtcc ccacgggatg 180
gggaaaacca ccaccacgca actgctgggt gccctggggt cgcgcgacga tatcgtctac 240
gtacccgagc cgatgactta ctggcgggtg ctgggggctt ccgagacaat cgcgaacatc 300
tacaccacac aacaccgcct cgaccagggt gagatatcgg ccggggacgc ggcggtggtg 360
atgacaagcg cccagataac aatgggcatg ccttatgccg tgaccgacgc cgttctggct 420
cctcatatcg ggggggaggg tgggagctca catgccccgc ccccgccctt caccctcatc 480
ttcgaccgcc atcccatcgc cgccctcctg tgctaccggg ccgcgcgata ccttatgggc 540
agcatgaccc cccaggccgt gctggcggtt gtggccctca tcccgcgac cttgcccggc 600
acaaacatcg tggtgggggc ccttcgggag gacagacaca tcgaccgcct ggccaaacgc 660
cagcgccccg gcgagcggct tgacctggct atgctggccg cgattcgccg cgtttacggg 720
ctgcttgcca atacggtgcg gtatctgcag ggcgcggggt cgtggcgggg ggattgggga 780
cagctttcgg ggacggccgt gccgccccag ggtgccgagc cccagagcaa cgcgggcccc 840
cgacccacac tcggggacac gttatttacc ctgtttcggg ccccagattt gctggcccc 900
aacggcgacc tgtataacgt gtttgccctg gccttgagc tcttgccaa acgcctccgt 960
cccatgcacg tctttatcct ggattacgac caatcgccc cggctgccc ggacgccctg 1020
ctgcaactta cctccgggat ggtccagacc cacgtcacca ccccggtc cataccgacg 1080
atctgcgacc tggcgcgcac gtttgcccgg gagatggggg aggctaac 1128
```

<210> 230

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 230

```
atggcttcgt accccggcca tcaacacgcg tctgcgttcg accaggctgc gcgttctcgc 60
ggccatagca accgacgtac ggcgttgccg cctcgccggc agcaagaagc cacggaagtc 120
cacctggagc agaaaatgcc cacgctactg cgggtttata tagacggtcc tcacgggatg 180
gggaaaacca ccaccacgca actgctgggt gccctggggt cgcgcgacga tatcgtctac 240
gtacccgagc cgatgactta ctggcgggtg ctgggggctt ccgagacaat cgcgaacatc 300
tacaccacac aacaccgcct cgaccagggt gagatatcgg ccggggacgc ggcggtggtg 360
atgacaagcg cccagataac aatgggcatg ccttatgccg tgaccgacgc cgttctggct 420
cctcatatcg ggggggaggg tgggagctca catgccccgc ccccgccctt caccctcatc 480
ttcgaccgcc atcccatcgc cgccctcctg tgctaccggg ccgcgcggtg ccttatgggc 540
agcatgaccc cccaggccgt gctggcggtt gtggtctca tcccgcgac cttgcccggc 600
acaaacatcg tggtgggggc ccttcgggag gacagacaca tcgaccgcct ggccaaacgc 660
cagcgccccg gtgagcggct tgacctggct atgctggccg cgattcgccg cgtttacggg 720
ctacttgcca atacggtgcg gtatctgcag tgcgcggggt cgtggcgggg ggattgggga 780
cagctttcgg ggacggccctt gacgccccag ggtgccgagc cccagagcaa cgcgggcccc 840
cgaccccata tcggggaaac gttatttacc ctgtttcggg ccccagattt gctggcccc 900
aacggcgacc tgtacaacgt gtttgccctg gccttgagc tcttgccaa acgcctccgt 960
cccatgcacg tctttatcct ggattacgac caatcgccc cggctgccc ggacgccctg 1020
ctgcaactta cctccgggat ggtccagacc cacgtcacca ccccggtc cataccgacg 1080
atctgcgacc tggcgcgcac gtttgcccgg gagatggggg aggctaac 1128
```

<210> 231

<211> 1128

<212> DNA

Sequence Listing.txt

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 231

```

atggcttcgt accccggcca tcaacacgcg tctgcgttcg accaggctgc gcgttctcgc 60
ggccatagca accgacgtac ggcgttgccg cctcgccggc agcaagaagc cacggaagtc 120
cacctggagc agaaaatgcc cacgctactg cgggtttata tagacggtcc tcacgggatg 180
gggaaaacca ccaccacgca actgctgggt gccctgggtt cgcgcgacga tatcgtctac 240
gtacccgagc cgatgactta ctggcgggtg ctgggggctt ccgagacaat cgcgaacatc 300
tacaccacac aacaccgcct cgaccagggt gagatatcgg ccggggacgc ggcggtggtg 360
atgacaagcg cccagataac aatgggcatg ctttatgccg tgaccgacgc cgttctggct 420
cctcatatcg ggggggaggg tgggagctca catgccccgc ccccgccctt caccctcatc 480
ttcgaccacc atcccatcgc cgccctcctg tgctacccgg ccgcgcggtg ctttatgggc 540
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cccatgcacg tctttatcct ggattacgac caatcgccc cggctgccc ggacgcccgt 1020
ctgcaactta cctccgggat ggtccagacc cacgtcacca ccccggtc ccatccgacg 1080
atctgcgacc tggcgcgcac gtttgcccgg gagatggggg aggctaac 1128

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<210> 232

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 232

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cgcccggagc agaaaatgcc cacgctactg cgggtttata tagacggtcc ccacgggatg 180
gggaaaacca ccaccacgca actgctgggt gccctgggtt cgcgcgacga tatcgtctac 240
gtacccgagc cgatgactta ctggcgggtg ctgggggctt ccgagacaat cgcgaacatc 300
tacaccacac aacaccgcct cgaccagggt gagatatcgg ccggggacgc ggcggtggtg 360
atgacaagcg cccagataac aatgggcatg ctttatgccg tgaccgacgc cgttctggct 420
cctcatatcg ggggggaggg tgggagctca catgccccgc ccccgccctt caccctcatc 480
ttcgaccgcc atcccatcgc cgccctcctg tgctacccgg ccgcgcgata ctttatgggc 540
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cagcgccccg gcgagcggct tgacctggct atgctggccg cgattcgccg cgtttacggg 720
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cccatgcacg tctttatcct ggattacgac caatcgccc cggctgccc ggacgcccgt 1020
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atctgcgacc tggcgcgcac gtttgcccgg gagatggggg aggctaac 1128

```

<210> 233

<211> 1128

<212> DNA

<213> Artificial Sequence

Sequence Listing.txt

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 233

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ggccatagca accgacgtac ggcgttgcg cctcgccggc aacaagaagc cacggaagtc 120
cgcctggagc agaaaatgcc cacgctactg cgggtttata tagacggtcc tcacgggatg 180
gggaaaacca ccaccacgca actgctggtg gccctggggt cgcgcgacga tatcgtctac 240
gtacccgagc cgatgactta ctggcagggt ctgggggctt ccgagacaat cgcgaacatc 300
tacaccacac aacaccgcct cgaccagggt gagatatcgg ccggggacgc ggcggtggtg 360
atgacaagcg cccagataac aatgggcatg cttatgccg tgaccgacgc cgttctggct 420
cctcatatcg ggggggaggc tgggagctca catgccccgc ccccgccctt caccctcatc 480
ttcgaccgcc atcccatcgc cgccctcctg tgttaccggg ccgcgcgata cttatgggc 540
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acaaacatcg tgttgggggc cttccggag gacagacaca ccgaccgcct ggccaaacgc 660
cagcgccccg gcgagcggct tgacctggct atgctggccg cgattcgccg cgtttacgag 720
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ctgcaactta cctccgggat ggtccagacc cacgtacca ccccggtc cataccgacg 1080
atctgcgacc tggcgcgcac gtttgcggg gagatggggg aggctaac 1128

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<210> 234

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 234

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cgcctggagc agaaaatgcc cacgctactg cgggtttata tagacggtcc tcacgggatg 180
gggaaaacca ccaccacgca actgctggtg gccctggggt cgcgcgacga tatcgtctac 240
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acaaacatcg tgttgggggc cttccggag gacagacaca ccgaccgcct ggccaaacgc 660
cagcgccccg gcgagcggct tgacctggct atgctggccg cgattcgccg cgtttacgag 720
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cagctttcgg ggacggccgt gccgccccag ggtgccgagc cccagagcaa cgcgggcccc 840
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aacggcgacc tgtataacgt gtttgcctgg gccttgagc tcttgccaa acgcctccgt 960
cccatgcacg tctttatcct ggattacgac caatcgcccg ccggtgccg ggacgccctg 1020
ctgcaactta cctccgggat ggtccagacc cacgtacca ccccggtc cataccgacg 1080
atctgcgacc tggcgcgcac gtttgcggg gagatggggg aggctaac 1128

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<210> 235

<211> 1128

<212> DNA

<213> Artificial Sequence

Sequence Listing.txt

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 235

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ggccatagca accgacgtac ggcgttgcg cctcgccggc agcaagaagc cacggaagtc 120
caccgggagc agaaaatgcc cacgctactg cgggtttata tagacggtcc ccacgggatg 180
gggaaaacca ccaccacgca actgctggtg gccctggggt cgcgcgacga tatcgtctac 240
gtacccgagc cgatgactta ctggcgggtg ctgggggctt ccgagacaat cgcgaacatc 300
tacaccacac aacaccgcct cgaccagggt gagatatcgg ccggggacgc ggcggtggtg 360
atgacaagcg cccagataac aatgggcatg ccttatgccg tgaccgacgc cgttctggct 420
cctcatatcg gggggagcgg tggagctca catgccccgc ccccgccctt caccctcatc 480
ttcgaccgcc atcccatcgc cgccctcctg tgctaccggc ccgcgcgata ccttatgggc 540
agcatgaccc cccaggccgt gctggcgctt gtggccctca tcccgcgcac cttgcccggc 600
acaaacatcg tgttgggggc ccttccggag gacagacaca tcgaccgcct ggccaaacgc 660
cagcgccccg gcgagcggct tgacctggct atgctggccg cgattcgccg cgtttacggg 720
ctgcttgcca atacggtgcg gtatctgcag ggcggcgggt cgtggcggga ggattgggga 780
cagctttcgg ggacggccgt gccgccccag ggtgccgagc cccagagcaa cgcgggcccc 840
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aacggcgacc tgtacaacgt gtttgccctg gccttgagc tcttgccaa acgcctccgt 960
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ctgcaactta cctccgggat gatccagacc cacgtcacca cccaggctc cataccgacg 1080
atctgcgacc tggcgcgcac gtttgcccgg gagatggggg aggctcac 1128

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<210> 236

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 236

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cacctggagc agaaaatgcc cacgctactg cgggtttata tagacggtcc tcacgggatg 180
gggaaaacca ccaccacgca actgctggtg gccctggggt cgcgcgacga tatcgtctac 240
gtacccgagc cgatgactta ctggcgggtg ctgggggctt ccgagacaat cgcgaacatc 300
tacaccacac aacaccgcct cgaccagggt gagatatcgg ccggggacgc ggcggtggtg 360
atgacaagcg cccagataac aatgggcatg ccttatgccg tgaccgacgc cgttctggct 420
cctcatatcg gggggagcgg tggagctca catgccccgc ccccgccctt caccctcatc 480
ttcgaccgcc atcccatcgc cgccctcctg tgctaccggc ccgcgcgata ccttatgggc 540
agcatgaccc cccaggccgt gctggcgctt gtggtcctca tcccgcgcac cttgcccggc 600
acaaacatcg tgttgggggc ccttccggag gacagacaca tcgaccgcct ggccaaacgc 660
cagcgccccg gtgagcggct tgacctggct atgctggccg cgattcgccg cgtttacggg 720
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cagctttcgg ggacggccctt gacgccccag ggtgccgagc cccagagcaa cgcgggcccc 840
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cccatgcacg tctttatcct ggattacgac caatcgcccg ccggtgccc ggacgccctg 1020
ctgcaactta cctccgggat ggtccagacc catgtcacca cccaggctc cataccgacg 1080
atctgcgacc tggcgcgcac gtttgcccgg gagatggggg aggctcac 1128

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<210> 237

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 237

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ggccatagca accgacgtac ggcgttgccg cctcgccggc agcaagaagc cacggaagtc 120
cacctggagc agaaaatgcc cacgctactg cgggtttata tagacggtcc tcacgggatg 180
gggaaaacca ccaccacgca actgctgggt gccctgggtt cgcgcgacga tatcgtctac 240
gtacccgagc cgatgactta ctggcgggtg ctgggggctt ccgagacaat cgcgaacatc 300
tacaccacac aacaccgcct cgaccagggt gagatatcgg ccggggacgc ggcggtggta 360
atgacaagcg cccagataac aatgggcatg ccttatgccg tgaccgacgc cgttctggct 420
cctcatatcg ggggggaggc tgggagctca catgccccgc ccccgccctt caccctcatc 480
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acaaacatcg tgttgggggc ccttccggag gacagacaca tcgaccgcct ggccaaacgc 660
cagcgccccg gcgagcggct tgacctggct atgctggccg cgattcgccg ccgttacggg 720
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cagctttcgg ggacggccgt gccgccccag ggtgccgagc cccagagcaa cgcgggcccc 840
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aacggcgacc tgtacaacgt gtttgccctg gccttggacg tcttgcccaa acgcctccgt 960
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ctgcaactta cctccgggat gatccagacc cacgtcacca cccaggctc cataccgacg 1080
atctgcgacc tggcgcgcac gtttgcccgg gagatggggg aggctaac 1128

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<210> 238

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 238

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ggccatagca accgacgtac ggcgttgccg cctcgccggc agcaagaagc cacggaagtc 120
cacctggagc agaaaatgcc cacgctactg cgggtttata tagacggtcc tcacgggatg 180
gggaaaacca ccaccacgca actgctgggt gccctgggtt cgcgcgacga tatcgtctac 240
gtacccgagc cgatgactta ctggcgggtg ctgggggctt ccgagacaat cgcgaacatc 300
tacaccacac aacaccgcct cgaccagggt gagatatcgg ccggggacgc ggcggtggta 360
atgacaagcg cccagataac aatgggcatg ccttatgccg tgaccgacgc cgttctggct 420
cctcatatcg ggggggaggc tgggagctca catgccccgc ccccgccctt caccctcatc 480
ttcgaccgcg atcccatcgc cgccctcctg tgctaccggg ccgcgcggtg ccttatgggc 540
agcatgaccc cccaggcctg gctggcgttc gtggtcctca tcccgcgac cttgcccggc 600
acaaacatcg tgttgggggc ccttccggag gacagacaca tcgaccgcct ggccaaatgc 660
cagcgccccg gtgagcggct tgacctggct atgctggccg cgattcgccg cgtttacggg 720
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aacggcgacc tgtacaacgt gtttgccctg gccttggacg tcttgcccaa acgcctccgt 960
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ctgcaactta cctccgggat ggtccagacc catgtcacca cccaggctc cataccgacg 1080
atctgcgacc tggcgcgcac gtttgcccgg gagatggggg aggctcac 1128

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<210> 239

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

Sequence Listing.txt

synthesized sequence

<400> :239

atggcttcgt	acccctgcca	tcaacacgcg	tctgcgttcg	accaggctgc	gcgttctcgc	60
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cgcctggagc	agaaaatgcc	cacgctactg	cgggtttata	tagacggtcc	tcacgggatg	180
gggaaaacca	ccaccacgca	actgctgggtg	gccctggggt	cgcgcgacga	tatcgtctac	240
gtacccgagc	cgatgactta	ctggcagggtg	ctgggggctt	ccgagacaat	cgcgaacatc	300
tacaccacac	aacaccgcct	cgaccagggtg	gagatatcgg	ccggggacgc	ggcggtggtg	360
atgacaagcg	cccagataac	aatgggcatg	ccttatgccg	tgaccgacgc	cgttctggct	420
cctcatatcg	ggggggaggc	tgggagctca	catgccccgc	ccccggccct	caccctcatc	480
ttcgaccgcc	atcccatcgc	cgccctcctg	tgctaccggg	ccgcgcgata	ccttatgggc	540
agcatgaccg	cccaggccgt	gctggcggtc	gtggccctca	tcccgccgac	cttgcccggc	600
acaaaacatcg	tggtgggggc	ccttcgggag	gacagacaca	tcgaccgcct	ggccaaacgc	660
cagcgccccg	gcgagcggct	tgacctggct	atgctggccg	cgattcgccg	cgtttacggg	720
ctgcttgcca	atacggtgcg	gtatctgcag	ggcggcgggt	cgtggcgggg	ggattgggga	780
cagctttcgg	ggacggccgt	gccgccccag	ggtgccgagc	cccagagcaa	cgcgggcccc	840
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aacggcgacc	tgtataacgt	gtttgcctgg	gccttgagcg	tcttgcccaa	acgcctccgt	960
cccatgcacg	tctttatcct	ggattacgac	caatcgcccg	ccggctgccg	ggacgccctg	1020
ctgcaactta	cctccgggat	ggtccagacc	cacgtcacca	ccccaggctc	cataccgacg	1080
atctgcgacc	tggtgcgcac	gtttgcccgg	gagatggggg	aggctaac		1128

<210> :240

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> :240

atggcttcgt	accccggcca	tcaacacgcg	tctgcgttcg	accaggctgc	gcgttctcgc	60
ggccatagca	accgacgtac	ggcgttgccg	cctcgccggc	agcaagaagc	cacggaagtc	120
cacctggagc	agaaaatgcc	cacgctactg	cgggtttata	tagacggtcc	tcacgggatg	180
gggaaaacca	ccaccacgca	actgctgggtg	gccctggggt	cgcgcgacga	tatcgtctac	240
gtacccgagc	cgatgactta	ctggcgggtg	ctgggggctt	ccgagacaat	cgcgaacatc	300
tacaccacac	aacaccgcct	cgaccagggtg	gagatatcgg	ccggggacgc	ggcggtggtg	360
atgacaagcg	cccagataac	aatgggcatg	ccttatgccg	tgaccgacgc	cgttctggct	420
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ttcgaccgcc	atccaatcgc	cgccctcctg	tgctaccggg	ccgcgcggta	ccttatgggc	540
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acaaaacatcg	tggtgggggc	ccttcgggag	gacagacaca	tcgaccgcct	ggccaaacgc	660
cagcgccccg	gtgagcggct	tgacctggct	atgctggccg	cgattcgccg	cgtttacggg	720
ctacttgcca	atacggtgcg	gtatctgcag	tgccggcggg	cgtggcgggg	ggattgggga	780
cagctttcgg	ggacggccct	gacgccccag	ggtgccgagc	cccagagcaa	cgcgggcccc	840
cgaccccata	tcggggaaac	gttatttacc	ctgtttcggg	cccccgagtt	gctggcccc	900
aacggcgacc	tgtacaacgt	gtttgcctgg	gccttgagcg	tcttgcccaa	acgcctccgt	960
cccatgcacg	tctttatcct	ggattacgac	caatcgcccg	ccggctgccg	ggacgccctg	1020
ctgcaactta	cctccgggat	ggtccagacc	catgtcacca	ccccaggctc	cataccgacg	1080
atctgcgacc	tggtgcgcac	gtttgcccgg	gagatggggg	aggctcac		1128

<210> 241

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

Sequence Listing.txt

<400> 241

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cacctggagc agaaaatgcc cacgctactg cgggtttata tagacggtcc tcacgggatg 180
gggaaaacca ccaccacgca actgctgggtg gccctggggt cgcgcgacga tatcgtctac 240
gtacccgagc cgatgactta ctggcgggtg ctgggggctt ccgagacaat cgcgaacatc 300
tacaccacac aacaccgcct cgaccagggt gagatatcgg ccggggacgc ggcggtggtg 360
atgacaagcg cccagataac aatgggcatg ccttatgccg tgaccgacgc cgttctggct 420
cctcatatcg ggggggaggg tgggagctca catgccccgc ccccgccctt caccctcatc 480
ttcgaccgcc atccaatcgc cgccctcctg tgctaccggg ccgcgcggtg ccttatgggc 540
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cagcgccccg gtgagcggct tgacctggct atgctggccg cgattcgccg cgtttacggg 720
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ctgcaactta cctccgggat ggtccagacc catgtacca cccaggctc cataccgacg 1080
atctgcgacc tggcgcgcac gtttgcccgg gagatggggg aggtctac 1128
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<210> 242

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 242

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ggccatagca accgacgtac ggcgttgccg cctcgccggc agcaagaagc cacggaagtc 120
cgctggagc agaaaatgcc cacgctactg cgggtttata tagacggtcc tcacgggatg 180
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<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

Sequence Listing.txt

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<210> 244

<211> 1128

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially synthesized sequence

<400> 244

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